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AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

RESEARCH PROPOSAL

QUARTERLY STATUS REPORT

OCTOBER - DECEMBER 1993

RESEARCH PROPOSAL

QUARTERLY STATUS REPORT

FOURTH QUARTER 1993

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INTRODUCTION

The Research Proposal Quarterly Status Report is published quarterly (March, June, September, and December). By the Air Force Office of Scientific Research (AFOSR) It lists all the research proposals received by AFOSR during the past six months along with the action taken (Initiated, Declined or Withdrawn on each report.

The report is divided into two parts. The Institution Index lists proposals alphabetically by institution. This is followed by a more detailed listing by Directorate, and by Program Manager within the Directorate.

PURPOSE

This report is designed to inform other Government sponsoring agencies of the proposals received by the AFOSR and the action taken on these proposals. Readers must keep in mind that declined proposals should not necessarily be considered as scientifically unacceptable; many declinations result from a lack of funds or as a result of special programmatic emphasis.

AFOSR MISSION

The Air Force Office of Scientific Research (AFOSR) is the single manager of the Air Force Defense Research Sciences Program (Program Element 61102F) and the primary Air Force agency for the extramural support of fundamental scientific research. To sponsor and sustain basic research and ensure access to research results in support of the Air Force goals of control and maximum utilization of air and space. The AFOSR is organized under the Director, Science and Technology, Air Force Materiel Command.

AFOSR awards grants and contracts for research in areas of science relevant to the needs of the Air Force. Research is selected for support from proposals received in response to the Broad Agency Announcement originating from scientists investigating problems involving the search for new knowledge and the expansion of scientific principles. Selection is on the basis of scientific potential for improving Air Force operational capabilities, originality, significance of science, the qualification of the principal investigators, and the reasonableness of the proposed budget.

KEY TO READING THE DATA

Title - The title of the research proposal.

Institution - The organization, (e.g., college/university, company) at which the research will be conducted.

Investigator - The Principal Investigators proposing the research.

Type - N indicates a new research effort.

- R indicates a continuation of an ongoing research effort.

Months - The duration of the research proposal.

Received - The month and year in which the AFOSR received the proposal.

Amount - The funds requested of the AFOSR for support of the research proposal.

Status - A = ACCEPTED indicates that the review has been completed and the proposal recommended for funding.

- D = DECLINED indicates the proposal has been reviewed but will not be funded by the AFOSR.

- BLANK SPACE = indicates the proposal is being reviewed.

- W = WITHDRAWN indicates that the proposal submitted was removed from further consideration at the proposer's request.

Program Manager - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal.

Proposal # - An AFOSR Directorate assigned control number to uniquely identify the research proposal.

Initiate - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

Star Date - The recommended date for commencement of the research.

Total Amount - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation.

PART 1

INSTITUTION	INVESTIGATOR LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PI NAME
Dartmouth College	Schaaff	William		94-NE-062	D	SCHLOSSBER
Duke University	Loros	Jennifer	J	94-ML-008	A	MADDAD
Florida Institute of Technology	Wells	Richard	L	94-MC-030	A	ERSTFELD
	Kozaitis	Samuel	P	94-NE-028	D	CRAIG
	Liu	Sheng		94-MA-073		JONES
	Rafert	Bruce	J	94-ML-050		MADOSKI
Florida International University	Hardy	Kenneth	A	94-NE-074	D	KELLEY
General Atomic	Strecker	Mal		94-MC-065		PECHEWIK
General Electric Co	Caruso	Andrew	J	94-MC-001	A	MEDBERG
George Mason University	Correa	Sanjay		94-MA-007	A	TISMKOFF
	Stewart	Clayton	V	94-MM-039	D	SUDDARTH
	Van Trees	Harry	L	94-MM-016	D	SJOGREN
Georgia Institute of Tech	Atkeson	Christopher	G	94-MM-064	A	SUDDARTH
	Blumenthal	Daniel	J	94-NE-087	A	CRAIG
	Lackey	W. Jack		94-MC-044	A	PECHEWIK
Georgia State University	Zhou	Huizhan		94-MM-080	D	GLASSMAN
Georgia Tech Research Corporation	Berdichovsky	Victor	L	94-MA-065		WU
Georgia Univ Research Foundation Inc	Duncan	Michael	A	94-MC-024	A	BERMAN
Georgia Research Conferences Inc	Compton	Robert		94-MC-020	D	BERMAN
	Cruickshank	Alexander		94-NE-004		POMRENKE
Hampton University	Tabibi	Bagher	M	94-MA-020	A	BIRKAM
				94-MA-061		BIRKAM
Harvard University	Cavanaugh	Patrick		94-ML-046	A	TANGMEY
Howard University	Kushawaha	Vikram	S	94-NE-060	D	SCHLOSSBER
	Pollack	Steven	K	94-MC-055		MEDBERG
Illinois Institute of Technology	Mandal	Arja	K	94-MC-037	D	LEE
	Williams	David	R	94-MA-024	D	FANT
Iowa State University	Coats	Joel	R	94-MC-057	D	MEDBERG
	Gordon	Mark	S	94-MC-068		BERMAN
				94-MC-069		BERMAN
Jet Propulsion Laboratory	Harder	Seth	R	94-MC-066	A	LEE
Johns Hopkins University	Khurgin	Jacob		94-NE-082	A	CRAIG
Knoxville College	Padar	Mark	S	94-NE-033	D	BARKER
Lehigh University	Sih	George	C	94-MA-079		JONES
Louisiana State Univ--School of Medicine	Dunn	Adrian	J	94-ML-034	A	MADDAD
Louisiana State University	Charalampopoulos	Tryfon	T	94-MA-060		TISMKOFF
Massachusetts Institute of Technology	Covert	Eugene	E	94-MA-057	A	WU
	Hall	Steven		94-MA-010		WU
	Helman	Don		94-NE-011		POMRENKE
	Isopen	Erich	P	94-NE-037	A	SCHLOSSBER
	Kerrebrock	Jack	L	94-MA-015	A	FANT
	Lee	Min-Chang		94-NE-032	D	BARKER
	Mortenson	Andrew		94-MC-003		WARD
	Thomas	Edwin	L	94-MC-040	A	LEE
	Toksoz	M. Mafi		94-ML-030	A	DICKINSON
	Waxman	Allen	M	94-ML-019	A	TANGMEY
Materials Research Society	Ballance	John	B	94-MC-013		LEE
Medical College of Ohio	Goldblatt, M.D.	Peter	J	94-MC-017	A	MEDBERG

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Michigan State University	Tien	H	Serguei	T	94-NA-038		JONES
Michigan Technological University	Trell	Elias	Francis	C	94-NA-011	D	JACOBS
NASA - Goddard Space Flight Center	Einaudi	John	Francis		94-NA-034	A	JONES
National Academy of Sciences	Lavery	Carlos	John		94-NL-020	A	KROLL
Naval Research Laboratory	Sanday	Thomas	Carlos		94-NA-052	D	NACHMAN
New Mexico State University	Wearn	Nirmal	Thomas	M	94-NA-006	A	JONES
North Carolina State University	Williams	Patrick	Thomas		94-NL-024	A	DICKINSON
Northwestern University	Yakobson	B.	Nirmal	L	94-NL-035	A	KOZUMBO
Northwest Research Associates, Inc.	Chan	Chung	Patrick	I	94-NL-056	A	KOZUMBO
Northwestern University	Wright	Jon	B.		94-NL-045	A	NACHMAN
Northwestern University	Marks	Laurence	Chung	A	94-NE-002	A	BARKER
Office of Naval Research	Razeghi	George	Jon	D	94-NE-007	A	SJOGREN
	Mong	Steven	Laurence		94-NE-058	A	ERSTFELD
	Fishman	George	Nanjeh	D	94-NE-016	D	POHRENKE
	Spanos	George	Steven	K	94-NE-036	A	LEE
	Lannutti	John	George		94-NC-059	A	WARD
	Lemberger	Thomas	George	J	94-NC-021	A	WARD
	Mokari	Thomas	John	R	94-NC-014	A	WARD
	Raff	Lionel	Thomas		94-NE-047	A	WEINSTOCK
	Thompson	David	M		94-NE-056	D	WITT
	Hennage	David	L		94-NC-062	D	BERMAN
	Parsons	James	M		94-NC-025	D	BERMAN
	Cusumano	Joseph	D		94-NE-085	A	SCHLOSSER
	Cutler	Paul	P		94-NE-027	D	WITT
	Micci	Michael	M		94-NA-062	D	WU
	Santoro	Robert	H		94-NE-031	D	BARKER
	Carlin	Laurence	M		94-NE-030	A	BIRKAN
	Chao	Hung-Hsiang	J		94-NA-022	A	BIRKAN
	Wolf	Ed			94-NA-015	A	NACHMAN
	Floudas	Christodoulos	J		94-NA-048	D	GLASSMAN
	Happer	Will	L		94-NE-052	D	WEINSTOCK
	Jaffe	Peter	A		94-NC-026	A	BERMAN
	Lee	Chung	R		94-NE-007	A	KELLEY
	Miles	Richard	K		94-NL-037	A	KOZUMBO
	Reblitz	Herschel	B		94-NA-050	A	TISHKOFF
	Bowman	Keith			94-NA-033	A	SARELL
	Meister	Stephen	J		94-NC-052	A	BERMAN
	Gunsbor	Robert	D		94-NC-070	A	PECHENIK
	Schneider	Steven	P		94-NA-056	A	BIRKAN
	Brown	Theodore			94-NE-021	A	POHRENKE
	Gafney	Harry	D		94-NA-037	A	SARELL
	Birnboim	Mayer			94-NL-013	D	GLASSMAN
	Mitchell	John	D		94-NC-067	A	LEE
	Boucher	Thomas	H		94-NL-002	A	HART
	Manhsoudi	Rahbar	E		94-NA-070	D	GLASSMAN
	Day	Steven	O		94-NA-029	D	GLASSMAN
					94-NM-079	A	SJOGREN
					94-NL-019	A	DICKINSON

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Scientific Research Associates, Inc. Smithsonian Institution Stanford University	Grubin	Harold	L	94-NE-086	A	MITT
	Walsworth	Ronald		94-NE-001	A	KELLEY
	Gorje	Ronald	I	94-NA-025	D	LEWIS
	Gowan	Craig	T	94-NA-003	A	TISHKOFF
State University of New York Stevens Institute of Technology Syracuse University	Cannon	Robert		94-NA-066		WU
	Dworkin	Jack		94-NA-067		WU
	Geballe	Theodore		94-NA-027	D	LEWIS
	Nix	William	D	94-NE-048	A	WEINSTOCK
State University of New York Stevens Institute of Technology Syracuse University	Sturrock	Peter	A	94-NC-049	A	WARD
	Likharev	Konstantin	K	94-NL-044	A	RADOSEK
	Zemda	Henry		94-NE-045	D	WEINSTOCK
	Barlow	Robert	B	94-NA-028	D	SJOGREN
Texas A and M Research Foundation Texas A and M University Texas Engineering Experiment Center Texas Tech University	Craig	Gary	L	94-NL-031	D	TANGNEY
	LaGriff	John	E	94-NA-058	D	WAKSMAN
	Sakar	Tapan	K	94-NA-016	A	FANT
	Song	Q	W	94-NA-030	A	NACHMAN
Tulane University United Technologies Research Center Univ of Alabama Univ of Arizona	Varshney	Pramod	K	94-NE-065	D	CRAIG
	Hogan	M.	A	94-NA-072	A	SJOGREN
	Strganac	Thomas	M	94-NA-017		WU
	Kurdila	Andrew	J	94-NA-009	D	WU
Univ of California, Berkeley	Chanda	Kamal	C	94-NA-068		WU
	Endsley	Mica	R	94-NL-032	A	COLLINS
	Kristiansen	Magne		94-NE-034	A	BARKER
	Roundhill	D.	M	94-NC-056	D	MEDBERG
Univ of California, Berkeley	Rose	S.		94-NC-006		PECMENIK
	Amthor	Franklin	R	94-NL-057		MAODAO
	Chung	T J		94-NA-040		SAKELL
	Galloway	Kenneth		94-NE-058	D	POMRENKE
Univ of California, Berkeley	Khitrava	Galina		94-NE-039	D	SCHLOSSER
	Neifeld	Mark		94-NE-012	A	CRAIG
	Peyghambarian	Nasser		94-NC-064	D	BERMAN
	Sarid	Dror		94-NE-038	D	SCHLOSSER
Univ of California, Davis	Uhlmann	Donald	R	94-NC-023	A	ERSTFELD
	Hirdsall	Charles	K	94-NE-035	A	BARKER
	Liu	Kam	Y	94-NE-063	D	SCHLOSSER
	Lieberman	Michael	A	94-NE-023	A	SMITH
Univ of California, Irvine	Huamark	Daniel	M	94-NC-027	A	BERMAN
	Zakhor	Avideh		94-NA-059	A	SJOGREN
	Luhmann, Jr.	Neville	C	94-NE-057	D	BARKER
	Luhmann, Jr.	Neville		94-NE-023	A	BARKER
Univ of California, Los Angeles	Mayne	David	Q	94-NE-030	D	BARKER
	Lavernis	S.J.		94-NA-063	D	JACOBS
	Sperling	George		94-NC-002	A	WARD
	Ashour-Abdallah	Maha		94-NL-049	A	TANGMEY
Univ of California, San Diego	Davis	Paul	M	94-NA-042		NACHMAN
	Abarbanel	Henry D I		94-NL-047	A	DICKINSON
				94-NA-009		MCNICHAE

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Univ of California, San Francisco	Cristian	Flaviu		I	94-NM-035	A	SUDARTH
	Esener	Sadik		C	94-NE-067	A	CRAIG
	Orcutt	John		A	94-NL-028	A	DICKINSON
	Vernon	Frank		L	94-NL-029	A	DICKINSON
Univ of California, Santa Barbara	Guy	Richard		M	94-NL-023	A	KOZUMBO
	Weinberg	W		H	94-NE-073	A	PORRENKE
	Dayo	Eduardo			94-NA-012	D	WU
	Gossard	Arthur		C	94-NE-025	A	WITT
Univ of Central Florida	Deo	Marsingh			94-NM-055		GLASSMAN
	Liu	Juin		J	94-NE-024		WITT
	Richardson	Martin			94-NE-044	A	SCHLOSSER
	Oka	Takeshi			94-NC-028	A	BERMAN
Univ of Chicago	Van Cauter	Eve			94-NL-014	A	MADDAD
	Dorsey	John		G	94-NL-036	A	KOZUMBO
	Garrett	Patrick		H	94-NM-038	A	JACOBS
	Hubbard	Arthur		T	94-NC-023	D	WILKES
Univ of Cincinnati	Mark	James		E	94-NC-041	D	LEE
	Branch	Melvyn		C	94-NA-033		BIRKAN
	Douglas	Kenneth			94-NE-046	D	WEINSTOCK
	Hauser	John		E	94-NM-006	A	JACOBS
Univ of Colorado	Hollberg	Leo			94-NE-072	A	KELLEY
	Leone	Stephen		R	94-NC-061		BERMAN
	Mahalingam	Shankar			94-NA-032		BIRKAN
	Moddel	Garret			94-NE-013	D	CRAIG
Univ of Connecticut	Wagner	Kelvin			94-NE-066	D	CRAIG
	William	Kasper		J	94-NA-043		JONES
	Bar-Shalom	Yaakov			94-NM-054	A	GLASSMAN
	Becker	Roger		J	94-NA-036		TISHKOFF
Univ of Dayton	Gustafson	Steven		C	94-NE-061	D	SCHLOSSER
	Yoney	Perry		P	94-NE-055	A	KELLEY
	Hench	Larry		L	94-NC-032	A	ERSTFELD
	Li	Jian			94-NM-021	D	SJOGREN
Univ of Florida	Mecholsky, Jr	John		J	94-NC-045	D	PECHEMIK
	Thomson	Ewen		M	94-NL-039	A	KROLL
	Whitney	E Dow			94-NC-047	D	PECHEMIK
	Winefordner	James		D	94-NC-046	D	PECHEMIK
Univ of Houston	Mussain	Fazle			94-NM-025	D	NACHMAN
	Grady	David			94-NE-083	D	CRAIG
	Eden	Gary			94-NE-042	D	SCHLOSSER
		Steve			94-NE-053	D	PORRENKE
Univ of Illinois - Chicago	Granick	Steve			94-NC-033	A	ERSTFELD
	Morkoc	Hadis			94-NE-069	A	WITT
	Namachchivaya	Navaratnam		S	94-NA-051	A	WU
	Rubel	Lee		A	94-NM-066	A	JACOBS
Univ of Illinois - Urbana Champaign	Vikakis	A		F	94-NA-011		WU
	Poulidakos	Dimos			94-NA-031	A	BIRKAN
	Hinkkanen	Aimo			94-NM-053	D	NACHMAN
	Cahill	Gregory		M	94-NL-053	A	MADDAD

REPORT DATE 06/14/94

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INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
Univ of Kentucky	Choe	Louis		C	94-NA-014	D	FANT
	McDonough	James		M	94-NA-041		SAKELL
Univ of Maryland	Stromberg	Arnold		J	94-NM-018	D	SJOGREN
	Agrawala	Ashok		K	94-NM-056	D	WAKSHAM
	Jelenky	Gregory			94-NE-080	D	WITT
	Hendler	James			94-NM-060	A	WAKSHAM
Univ of Massachusetts	Slud	Eric			94-NM-072		SJOGREN
	Yorke	James		A	94-NM-002		NACHMAN
	Chang	Ching		S	94-NA-004		LEWIS
	Ganz	Aura			94-NM-034	D	SUDDARTH
Univ of Massachusetts at Lowell	Riseman	Edward		M	94-NM-040	D	WAKSHAM
	Dannister	William			94-MC-004	A	HEDBERG
	Ting	John		M	94-NA-029	A	LEWIS
Univ of Michigan	Bernstein	Dennis		S	94-NM-037	A	JACOBS
	Bhattacharya	Pallab			94-NE-026	A	WITT
	Kamath	Terry			94-NA-053		BIRKAN
	Katehi	Linda		P	94-NM-036	D	NACHMAN
	Neubert	Torsten			94-NL-039	A	KROLL
	Smith	Edward		E	94-NL-004		TANGNEY
Univ of Minnesota	Cohen	Philip			94-NE-019	A	POMRENKE
	Goldman	Allen		M	94-NE-051	D	WEINSTOCK
Univ of Mississippi	Sinha	Sumon		K	94-NA-019	D	FANT
Univ of Missouri	Basu	Asit		P	94-NM-057	A	SJOGREN
	Connolly	John		W	94-NI-004	A	HART
	DeFazio	Brian			94-NM-043	A	SJOGREN
	Handal	Peter			94-NE-010	A	WITT
Univ of Nebraska	Bhattacharya	Prabir			94-NM-023	A	SJOGREN
Univ of Nevada	Meerschaeft	Mark		M	94-NM-065	D	NACHMAN
Univ of New Mexico	Brueck	Steven		R	94-NE-040	A	SCHLOSSBER
	Donohoe	Gregory		W	94-ML-005	D	TANGNEY
	Jain	Ravinder			94-NE-043	A	SCHLOSSBER
Univ of North Carolina	Tapscott	Robert		C	94-MC-050	A	HEDBERG
Univ of Notre Dame	Hirshman	Elliot			94-NL-006	D	TANGNEY
	Jumber	Eric		J	94-NA-047		MCMICHAEL
Univ of Pennsylvania	Porod	Wolfgang			94-NE-017	D	POMRENKE
Univ of Pittsburgh	Sucan	Maja			94-NL-009	A	HADDAD
	Asher	Sanford		A	94-MC-031	A	ERSFELD
	Chi	Micheline T.H.			94-NL-041	D	TANGNEY
Univ of Rochester	Furman	Joseph		M	94-NL-033		COLLINS
	Mukamel	Shaul			94-MC-039	A	BERMAN
Univ of South Carolina	Sobolewski	Roman			94-NE-050	D	WEINSTOCK
	Engle	Randall		W	94-ML-045	A	TANGNEY
Univ of South Florida	Owens	Thomas		J	94-NL-025	A	DICKINSON
Univ of Southern California	You	Yuncheng			94-NM-081	D	JACOBS
	Kunc	Joseph		A	94-NA-035		SAKELL
	Hewatia	Ramakant			94-NM-076	A	WAKSHAM
	Redakopp	Larry		G	94-NA-044	A	MCMICHAEL
	Smeis	Charles		G	94-NL-026	A	DICKINSON

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STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

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INSTITUTION	LAST NAME	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PN NAME
Univ of Southern Mississippi	Steier		William	H	94-ME-077	A	SMITH
Univ of Tennessee	Mauritz		Kenneth	A	94-MC-039	D	LEE
	Nelson		Randall	J	94-ML-017		MADDAD
	Roth		J	R	94-ME-036	D	BARKER
Univ of Tennessee / Space Institute	Keefer		Dennis		94-NA-063	A	BIRKAN
Univ of Texas	Powers		Edward	J	94-ME-022	D	SMITH
Univ of Texas Health Science Ctr	Meltz		Martin	L	94-ML-022	D	KOZUMBO
Univ of Texas, El Paso	Cooke		Daniel	E	94-MN-032	D	SUDDARTH
Univ of Toronto	Mosovsky		Nicholas		94-ML-011	D	MADDAD
Univ of Utah	Armentrout		Peter	B	94-ME-006	D	KELLEY
	Johnston		William	A	94-ML-001		TANGNEY
	Najm		John	A	94-NA-077		JONES
Univ of Virginia	Horgan		Cornelius	O	94-MN-033	A	MACHMAN
	Moore		J.	M	94-MC-019	A	WARD
	Moore		Robert	Y	94-ML-054	A	MADDAD
	Nandhakumar		Nagaraj		94-MN-041	D	WAKSWAN
	Nandhakumar		Nagaraj		94-MN-050		WAKSWAN
	Richards		Mercedes	T	94-ML-043	A	RADOOSKI
Univ of Washington	Babbitt		William	R	94-ME-015	D	CRAIG
	Kuroseka		M		94-NA-054	D	FANT
	Riley		James	J	94-NA-059		TISHKOFF
	Scheid		Peter	J	94-NA-055		LEWIS
Univ of Wisconsin	Edil		Tuncer	B	94-NA-026	A	LEWIS
	Saleh		Bahaa	E	94-ME-071		CRAIG
Univ of Wyoming	Petersen		Nancy	S	94-ML-021	A	KOZUMBO
	Schatzman		James		94-ML-027	A	DICKINSON
University of Alabama	Jones		Stanley	E	94-MN-061	A	MACHMAN
	Metzger		Robert	M	94-MC-043	D	LEE
University of Idaho	Crawford		Ronald	L	94-ML-055	D	KOZUMBO
	Shreeva		Jean'ne	M	94-MC-035	D	MEDBERG
Utah State University	Gunderson		R.	W	94-MN-077	D	JACOBS
Vanderbilt University	Wikswo		John	P	94-ME-049	A	WEINSTOCK
Virginia Polytechnic Inst & State Univ	Agrawal		Krishan	M	94-MI-003	A	MART
	Jurns		John	A	94-MN-022	A	JACOBS
	Claus		Richard	O	94-NA-046		JONES
	Kohler		Werner	E	94-NA-049		JONES
	Murphy		Kent	A	94-MN-031	A	MACHMAN
	Mayfeh		A		94-ME-075	D	SCHLOSSBER
	Ng		Wing	H	94-NA-076		WU
	Slampson		Roger	F	94-NA-023	A	FANT
Washington State University	Ariyamanaz		Roger	L	94-NA-018	D	FANT
	Dickinson		K.	A	94-MN-074		GLASSMAN
	Kuzyk		J. Thomas		94-NA-005		JONES
	Olsen		Mark	G	94-MC-042	A	LEE
Washington University	Ramaprian		Larry	C	94-ME-068	D	POMRENE
	Krchmavek		Selakavadi	R	94-NA-021	D	FANT
	Arasu		Robert	R	94-ME-064	D	CRAIG
			K.	T	94-MN-013		SJOGREN

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INSTITUTION

Yale University

INVESTIGATOR		MIDDLE	PROPOSAL	STATUS	PM NAME
LAST NAME	FIRST NAME				
Chen	C. Phillip		94-NR-017	A	GLASSMAN
Grandhi	Ramona	V	94-NA-064		WU
Cheng	Richard	K	94-NA-049	A	TISHKOFF
Rosner	Daniel	E	94-NA-002	A	TISHKOFF

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TRANSPORT PHENOMENA AND INTERFACIAL KINETICS IN MULTIPHASE COMBUSTION SYSTEMS Yale University	Rosner	N 36 26/10/93 \$468,250	A TISHKOFF 94-NA-002	\$148,036 15/02/94 \$468,250
PROPOSAL FPP RESEARCH ON SUPERSONIC REACTING FLOWS Stanford University	Boeman	N 36 27/10/93 \$624,000	A TISHKOFF 94-NA-003	\$196,429 01/02/94 \$624,000
EFFECT OF SURFACE FORCES IN THE MECHANICS OF MATERIALS WITH MICRO- SIZE PARTICLES Univ of Massachusetts	Chang	N 36 27/10/93 \$259,067	LEWIS 94-NA-004	
STUDIES OF DEFORMATION AND FRACTURE AT METAL-CERAMIC INTERFACES Washington State University	Dickinson	R 36 28/10/93 \$227,039	JONES 94-NA-005	
MECHANICS OF COMPOSITE MATERIALS Naval Research Laboratory	Sanday	N 12 29/10/93 \$60,000	A JONES 94-NA-006	\$60,000 01/07/94 \$60,000
TURBULENCE-CHEMISTRY FOR HIGHLY TURBULENT FLAMES General Electric Co	Correa	N 36 01/11/93 \$326,992	A TISHKOFF 94-NA-007	\$6,704 01/09/94 \$326,992
NONLINEAR DYNAMICS OF HIGH REYNOLDS NUMBER JOURNAL LAYER CHAOS Univ of California, San Diego	Abarbanel	N 36 08/11/93 \$266,505	MCMICHAEL 94-NA-008	
MULTIREOLUTION ANALYSIS IN THE THEORY AND EXPERIMENTAL STUDY OF STRUCTURAL DYNAMICAL SYSTEMS Texas Engineering Experiment Center	Kurdila	N 36 09/11/93 \$241,533	D WU 94-NA-009	
ROBUST CONTROL OF AEROSPACE STRUCTURES Massachusetts Institute of Technology	Hall	N 36 09/11/93 \$223,060	WU 94-NA-010	

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
NONLINEAR NORMAL MODES AND LOCALIZATION IN FLEXIBLE PERIODIC ASSEMBLIES Univ of Illinois	Vakakis A	N 36 19/11/93 \$104,160	WU 94-NA-011	
GLOBAL INPUT-OUTPUT BEHAVIOR AND UNCERTAINTY IN CONTROLLED STRUCTURES Univ of California, Santa Barbara	Bayo Eduardo	N 37 10/11/93 \$100,800	D WU 94-NA-012	
FLUORESCENT DIAGNOSTICS AND FUNDAMENTAL DROPLET PROCESSES Army Research Office	Mann David	N 36 12/11/93 \$240,000	A FISHKOFF 94-NA-013	880,000 18/11/93 9240,000
(AASERT-FV94) CRYOGENIC SPRAY COOLING IN SUPERCONDUCTING AND HYBRID CIRCUITS Univ of Kentucky	Chow Louis	N 36 23/11/93 \$166,161	D FANT 94-NA-014	
(AASERT-FV94) CONTROL OF FLOW IN COMPRESSORS BY SUCTION Massachusetts Institute of Technology	Kerrebrock Jack	N 36 23/11/93 \$120,127	A FANT 94-NA-015	9116,065 01/07/94 9120,127
(AASERT-FV94) UNSTEADY HEAT TRANSFER ON THE TURBINE RESEARCH FACILITY AT WRIGHT LABS Syracuse University	LaGriff John	N 36 23/11/93 \$121,139	A FANT 94-NA-016	9121,121 01/07/94 9121,139
(AASERT 94) THEORY AND EXPERIMENTS FOR FLUID-STRUCTURE-CONTROL INTERACTION PHENOMENON IN EVOLUTIONARY SYSTEMS Texas A and M University	Sirganac Thomas	N 24 23/11/93 \$217,952	WU 94-NA-017	
(AASERT FV-94) REDUCTION OF GAS TURBINE BLADE/HUB HEAT TRANSFER USING A FENCE DEVICE Virginia Polytechnic Inst & State Univ	Simpson Roger	N 36 23/11/93 \$108,247	D FANT 94-NA-018	
(AASERT-FV94) EDUCATING STUDENTS IN THE DEVELOPMENT OF INNOVATIVE FLOW SEPARATION CONTROL TECHNOLOGY Univ of Mississippi	Sinha Sumon	N 36 23/11/93 \$108,541	D FANT 94-NA-019	

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(MBCU) THERMAL-ELECTRIC PROPULSION WITH MAGNETOPLASMA DYNAMIC ACCELERATION Hampton University	Tabibi	N 48 23/11/93 \$632,204	A BIRMAN 94-NA-020	\$164,421 01/05/94 \$632,204
(CAASERT-FY94) "ARTIFICIAL INTELLIGENCE" APPROACH TO THE STUDY OF UNSTEADY FLOW CONTROL Washington State University	Ramaprian	N 36 23/11/93 \$138,356	D FANT 94-NA-021	
HIGH PRESSURE COMBUSTION STUDIES UNDER COMBUSTION-DRIVEN OSCILLATORY FLOW CONDITIONS Pennsylvania State University	Santoro	N 36 23/11/93 \$242,472	A BIRMAN 94-NA-022	\$80,272 01/07/94 \$242,472
(CAASERT-FY94) EXPERIMENTAL & NUMERICAL STUDIES OF UNSTEADY HEAT TRANSFER IN A TRANSONIC TURBINE Virginia Polytechnic Inst & State Univ	Wing	N 36 24/11/93 \$106,262	A FANT 94-NA-023	\$100,103 01/07/94 \$100,262
(CAASERT-FY94) THE ORIGIN AND CONTROL OF SIDE FORCES DURING TRANSIENT MANEUVERS Illinois Institute of Technology	David	N 36 24/11/93 \$134,730	D FANT 94-NA-024	
(CAASERT-FY94) PARALLEL FINITE ELEMENT ALGORITHM FOR SIMULATION OF DEFORMATION AND FLUID FLOW IN GRANULAR MATERIALS Stanford University	Ronaldo	N 36 24/11/93 \$136,300	D LEWIS 94-NA-025	\$132,100 01/06/94 \$132,100
(CAASERT-FY94) CONSTITUTIVE MODELING OF PARTICULATE MEDIA-STRUCTURE INTERFACE Univ of Wisconsin	Tuncer	N 36 29/11/93 \$132,100	A LEWIS 94-NA-026	
(CAASERT-FY94) AN AUGMENTATION TO THE AIR FORCE SUPPORT Stanford University	Jack	N 36 29/11/93 \$264,555	D LEWIS 94-NA-027	
(CAASERT-FY94) AUGMENTATION FOR BASIC RESEARCH ON VAPOR TRANSPORT IN SOIL Cornell University	Leonard	N 36 29/11/93 \$166,034	A LEWIS 94-NA-028	\$163,448 01/06/94 \$166,034

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CAASERT-FY94) BEHAVIOR OF MULTIPHASE GRANULAR MEDIA: MODELING FME STATIC-TO-VISCOUS FLOW REGIME Univ of Massachusetts at Lowell	Ting	N 36 29/11/93 \$55,748	A LEWIS 94-NA-029	\$55,748 01/06/94 \$55,748
CAASERT 34) CONTRIBUTIONS OF AEROMIZATION, VAPORIZATION AND COMBUSTION TO LIQUID ROCKET Pennsylvania State University	Micci	N 36 29/11/93 \$126,944	A BIRKAN 94-NA-030	\$126,944 01/07/94 \$126,944
CAASERT 24) CHARACTERIZATION OF HIGH-SPEED IMPINGING JET ATOMIZATION IN HIGH PRESSURE AND TEMPERATURE ENVIRONMENT Univ of Illinois - Chicago	Poulikakos	N 24 29/11/93 \$74,935	A BIRKAN 94-NA-031	\$74,935 01/07/94 \$74,935
CAASERT 34) STUDENT SUPPORT FOR RESEARCH ON ACOUSTIC-FLOW INTERACTIONS IN SOLID ROCKET MOTORS Univ of Colorado	Mahalingam	N 24 29/11/93 \$93,184	BIRKAN 94-NA-032	
CAASERT 34) GRADUATE SUPPORT FOR STUDIES OF NONSTEADY PROPELLANT COMBUSTION Univ of Colorado	Branch	N 24 29/11/93 \$92,071	BIRKAN 94-NA-033	
CAASERT94) MECHANICS AND MATERIALS STUDIES OF NANOSTRUCTURAL MATERIALS Michigan Technological University	Alfantis	N 24 30/11/93 \$160,603	A JONES 94-NA-034	\$160,603 01/07/94 \$160,603
CAASERT-FY94) TRANSFER OF VIBRATIONAL ENERGY IN MOLECULAR COLLISIONS Univ of Southern California	Kunc	N 36 30/11/93 \$125,153	SAKELL 94-NA-035	
CAASERT94) PRESSURE DEPENDENCE OF SOOT PARTICLE SIZE Univ of Dayton	Becker	N 24 30/11/93 \$70,387	TISHKOFF 94-NA-036	
CAASERT-FY94) LAMINAR-TURBULENT TRANSITION IN HIGH-SPEED COMPRESSIBLE BOUNDARY LAYERS WITH CURVATURE Purdue University	Schneider	N 36 30/11/93 \$145,364	A SAKELL 94-NA-037	\$145,364 30/06/94 \$145,364

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(CAASERT94) SUPPORTED BILAYER LIPID MEMBRANE-BASED BIOSENSORS USING PIEZOELECTRIC QUARTZ CRYSTALS Michigan State University	Tien H	N 24 30/11/93 \$178,754	JONES 94-WA-038	9196.691 30/06/94 \$196.691
(CAASERT-FY94) DEVELOPMENT OF PULSE-QURST LASER SOURCE & DIGITAL IMAGE PROCESSING FOR MEASUREMENTS OF HIGH-SPEED TIME-EVOLVING FLOW Princeton University	Richard Miles	N 36 30/11/93 \$196.691	A SARELL 94-WA-039	9196.691 30/06/94 \$196.691
(CAASERT FY94) DIRECT NUMERICAL SIMULATION OF SHOCKWAVE TURBULMNT BOUNDARY LAYER INTERACTION Univ of Alabama	Chung T J	N 36 30/11/93 \$95,552	SARELL 94-WA-040	
(CAASERT-FY94) ADDITIVE TURBULENT DECOMPOSITION OF THE THREE- DIMENSIONAL NAVIER STOKES EQUATIONS Univ of Kentucky	McDonough James	N 36 30/11/93 \$81,693	SARELL 94-WA-041	
(CAASERT-FY94) TURBULENCE MODELING/TRAINING Cornell University	Lunley John	N 36 30/11/93 \$151,032	A MCNICHAE 94-WA-042	9150.050 01/06/94 \$151.032
(CAASERT94) EXPERIMENTAL AND COMPUTATIONAL STUDIES OF PROGRESSIVE DEGRADATION Univ of Colorado	William Kasper	N 36 30/11/93 \$232,605	JONES 94-WA-043	
(CAASERT-FY94) AERODYNAMIC FLOW VECTORING FOR HIGH LIFT CONTROL Univ of Southern California	Redekopp Larry	N 36 01/12/93 \$138,715	A MCNICHAE 94-WA-044	9138.715 01/06/94 \$138.715
(CAASERT94) TRAINING OF MRCU STUDENTS IN TRANSIENT THERMO- MECHANICAL ANALYSIS OF STRUCTURAL COMPOSITES Alabama ACM University	Saha Pabitra	N 24 01/12/93 \$83,493	JONES 94-WA-045	
(CAASERT94) FIBER SENSOR SYSTEM FOR BALLISTIC IMPACT ANALYSIS Virginia Polytechnic Inst & State Univ	Claus Richard	N 36 01/12/93 \$142,700	JONES 94-WA-046	

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(AASERT-FY94) TURBULENCE-INDUCED, FAR-FIELD OPTICAL DEGRADATION Univ of Notre Dame	Jumper Eric	N 36 01/12/93 \$94,616	MCNICHAE 94-NA-067	
(AASERT) CLIP-ON SAPPHIRE EXTENSOMETER FOR HIGH TEMPERATURE MATERIALS ANALYSIS Virginia Polytechnic Inst & State Univ	Claus Richard	N 36 01/12/93 \$142,700	JONES 94-NA-068	
(AASERT94) TEMPERATURE, TRACE SPECIES, AND PHASE CONJUGATION IN DROPLETS AND SPRAYS Yale University	Chang Richard	N 36 01/12/93 \$105,293	TISHKOFF 94-NA-049	\$104,536 15/07/94 \$109,293
(AASERT 94) IGNITION AND FLAME STABILIZATION IN HIGH-SPEED FLOWS Princeton University	Law Chung	N 36 01/12/93 \$153,000	TISHKOFF 94-NA-050	\$153,001 15/07/94 \$153,001
(AASERT94) GLOBAL BIFURCATIONS IN NONLINEAR MECHANICAL SYSTEMS AND EXPERIMENTAL VERIFICATION Univ of Illinois	Naraschivaya Navaratnam	N 24 01/12/93 \$109,097	A WU 94-NA-051	\$109,097 15/07/94 \$109,097
(AASERT94) MODERN METHODS FOR LOW-ORDER MODELS IN NONLINEAR STRUCTURAL DYNAMICS Cornell University	Moon Francis	N 36 01/12/93 \$206,633	A WU 94-NA-052	\$203,097 15/07/94 \$206,633
(AASERT-FY94) AUTOMATED EXCAVATION Carnegie-Mellon University	Simmons Reid	N 36 01/12/93 \$287,055	D LEWIS 94-NA-053	
EXPLOITATION OF THE HAIRPIN VORTEX-INDUCED TORNADO EFFECT FOR FILM COOLING Univ of Washington	Kurosaki M	N 36 02/12/93 \$296,638	D FANT 94-NA-054	
STABILITY CHARACTERISTICS OF SOUNDING GRANULAR SHEAR FLOW Univ of Washington	Scheid Peter	N 36 02/12/93 \$292,227	LEWIS 94-NA-055	

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MODELING OF LIQUID JET ATOMIZATION PROCESSES Purdue Research Foundation	Meister Stephen	R 24 02/12/93 \$108,426	A BIRKAN 94-NA-056	0107,403 01/07/94 0108,426
TO STUDY NEW SOURCE OF UNSTEADY LOADS ON FAN, COMPRESSOR, AND TURBINE BLADES Massachusetts Institute of Technology	Covey Eugene	N 24 03/12/93 \$202,245	A WU 94-NA-057	007,022 01/07/94 0202,245
THEORETICAL INVESTIGATIONS OF PLASMA PHYSICS ISSUES IN THE HALL THRUSTER Univ of Michigan	Kannash Terry	N 36 04/12/93 \$353,971	BIRKAN 94-NA-058	
CAASERT94) INVESTIGATION OF LAMINAR FLAMELET MODEL OF TURBULENT DIFFUSION FLAMES Univ of Washington	Riley James	N 36 07/12/93 \$136,489	TISMKOFF 94-NA-059	
CAASERT94) DEVELOPMENT OF A TECHNIQUE TO DETERMINE THE MORPHOLOGY & DYNAMICS OF AGGLOMERATES IN CHEMICALLY REACTING FLOWS Louisiana State University	Charalampopoulos Tryfon	N 36 07/12/93 \$122,792	TISMKOFF 94-NA-060	
CAASERT94) DEVELOPMENT OF ADVANCED THERMAL AND ELECTRIC PROPULSION Hampton University	Tabibi Bagher	N 36 07/12/93 \$75,123	BIRKAN 94-NA-061	
CAASERT94) DIMENSIONALITY AND SPATIAL CORRELATION IN THE DYNAMICS OF FLEXIBLE IMPACT OSCILLATORS Pennsylvania State University	Cusumano Joseph	N 36 07/12/93 \$96,517	WU 94-NA-062	
TRANSPORT PROPERTIES FOR ARCJET PLASMAS Univ of Tennessee / Space Institute	Keefer Dennis	N 24 10/12/93 \$159,789	A BIRKAN 94-NA-063	065,523 15/09/94 0131,315
CAASERT94) DESIGN OPTIMIZATION OF ADAPTIVE STRUCTURES FOR EFFECTIVE AIRCRAFT CONTROL Wright State University	Grandhi Ramana	N 36 20/12/93 \$108,812	WU 94-NA-064	

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(ASERT94) CONSTITUTIVE EQUATIONS AT HIGH TEMPERATURES Georgia Tech Research Corporation	Sordichevsky Victor	N 36 20/12/93 \$111,521	WU 94-NA-065	
(AASERT 94) ACHIEVING A FUNDAMENTAL UNDERSTANDING OF HYBRID NEURAL NETWORK SYSTEMS FOR MULTI-LINK FLEXIBLE STRUCTURE CONTROL Stanford University	Cannon Robert	N 36 21/12/93 \$186,413	WU 94-NA-066	
(AASERT94) DEVELOPMENT OF A HYBRID NEURAL NETWORK CONTROLLER FOR A TIME-VARYING SYSTEM Stanford University	Cannon Robert	N 36 21/12/93 \$186,413	WU 94-NA-067	
CEMENT LINE INTERPHASE EFFECTS ON THE DYNAMIC MECHANICAL BEHAVIOR OF HAVERIAN COMPACT BONE TISSUE Texas A and M Research Foundation	Hogan H.	N 12 21/12/93 \$82,184	JONES 94-NA-072	
MECHANICS OF MATERIALS AND INTERFACES IN MICROELECTRONIC DEVICES Florida Institute of Technology	Liu Sheng	N 36 21/12/93 \$255,333	JONES 94-NA-073	
IMPROVED MODELING OF UNSTEADY HEAT TRANSFER Christian Brothers University	Orliver Mark	N 02 21/12/93 \$10,979	A FANT 94-NA-074	\$10,979 \$1/06/94 \$10,979
FRACTURE AND FATIGUE BEHAVIOR OF FIBER REINFORCED CERAMIC COMPOSITES UNDER REVERSAL OF LOADING Air Force Institute of Technology	Mall Shanker	N 36 21/12/93 \$140,500	JONES 94-NA-075	
NONLINEAR VIBRATIONS, STABILITY, AND DYNAMICS OF STRUCTURES Virginia Polytechnic Inst & State Univ	Mayfen A	N 12 21/12/93 \$5,000	WU 94-NA-076	
MICROMECHANICS ANALYSES OF SINGLE-FIBER EXPERIMENTS CAN GIVE A BETTER UNDERSTANDING OF THE FIBER/MATRIX INTERFACE IN COMPOSITES Univ of Utah	Mairn John	N 36 21/12/93 \$225,234	JONES 94-NA-077	

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INSTITUTION

CHEMICAL REACTIONS IN TURBULENT MIXING FLOWS

California Institute of Technology

INVESTIGATOR

Dimitrakas

Paul

FAILURE INITIATION AND INSTABILITY OF SOLID ROCKET PROPELLANT
GRAIN UNDER IGNITION LOADING
Lehigh University

Sih

George

TYPE/MONTHS
RECEIVED
AMOUNT

N 36
23/12/93
\$1,349,203

STATUS
PROGRAM MANAGER
PROPOSAL #

A
TISHKOFF
96-NA-078

INITIATE
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TOT AMT

9449-322
16/03/94
91,349,203

TITLE FILE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
RECOVERY AND RECYCLE OF 4,4'-CHEKAFLUOROISOPROVYLIDENE BIS(PHTHALIC ANHYDRIDE) [6-F] FROM FLUORINATED COMPOSITE MATERIALS General Electric Co	Andrew Caruso	N 36 01/10/93 \$449,942	A HEBERG 94-MC-001	8149,951 01/04/94 \$449,954
MICROSTRUCTURE EVOLUTION AND MECHANICAL BEHAVIOR OF Y-TIAL PROCESSED BY SPRAY ATOMIZATION AND DEPOSITION Univ of California, Irvine	E.-J. Lavernia	N 36 04/10/93 \$425,260	A WARD 94-MC-002	8148,487 01/03/94 \$425,260
FUNCTIONALLY GRADED INFILTRATED INTERCONNECTED METAL/CERAMIC COMPOSITES Massachusetts Institute of Technology	Mortensen Andreas	N 36 04/10/93 \$479,692	WARD 94-MC-003	
HIGH TEMPERATURE COMPOSITES BASED ON NANOCRYSTALLINE MATRICES United Technologies Research Center	Bose S.	N 36 06/10/93 \$1,003,740	PECHEMIK 94-MC-006	
SYNTHESIS OF ULTRAFINE PARTICLES FOR HIGH-STRENGTH CERAMICS Auburn University	Mills G	N 36 13/10/93 \$304,377	PECHEMIK 94-MC-007	
NONVOLATILE PRECURSORS TO ALTERNATIVE HALON FIRE EXTINGUISHING AGENTS Univ of Massachusetts at Lowell	Bannister William	N 36 20/10/93 \$375,000	A HEBERG 94-MC-008	\$120,000 01/04/94 \$375,000
FGMS FOR HIGH HEAT FLUX APPLICATIONS Ohio State University	Lannutti John	N 36 01/11/93 \$402,833	WARD 94-MC-014	
LOW TEMPERATURE CHEMICAL ROUTES TO SYNTHESIS AND PROCESSING OF TITANIUM ALUMINIDE INTERMETALLICS Carnegie-Mellon University	Kumar Prashant	N 08 03/11/93 \$45,852	WARD 94-MC-015	
CENTER FOR ENVIRONMENTAL MEDICINE Medical College of Ohio	Goldblatt, M.D. Peter	N 36 03/11/93 \$1,000,000	A HEBERG 94-MC-017	\$1,000,000 01/07/94 \$1,000,000

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SYMPOSIUM Q ENTITLED "ELECTRICAL, OPTICAL, AND MAGNETIC PROPERTIES OF ORGANIC SOLID STATE MATERIALS Materials Research Society	Ballance John	N 12 04/11/93 \$4,000	LEE 94-MC-018	\$5,100 01/06/94 \$5,100
THIRD INTERNATIONAL CONFERENCE ON SOLID-TO-SOLID PHASE TRANSFORMATIONS IN INORGANIC MATERIALS '94 Univ of Virginia	None J.	N 12 05/11/93 \$5,100	WARD 94-MC-019	\$5,100 01/06/94 \$5,100
THE GORDON CONFERENCE ON MULTIPHOTON PROCESSES Jordan Research Conferences Inc	Compton Robert	N 12 09/11/93 \$5,000	BERMAN 94-MC-020	\$5,000 01/08/94 \$5,000
EXAMINATION OF FORMATION MECHANISMS AND KINETICS IN A2+Y TITANIUM ALUMINIDE ALLOYS DURING ISOTHERMAL TRANSFORMATION Office of Naval Research	Spanos George	N 12 10/11/93 \$5,000	WARD 94-MC-021	\$5,000 01/08/94 \$5,000
INVESTIGATION OF THE CHEMICAL FATE OF HAZARDOUS AEROSPACE MATERIALS IN THE ENVIRONMENT: A SUPRAMOLECULAR PHOTOCHEMICAL ... Columbia University	Turro Nicholas	N 12 12/11/93 \$123,400	MEDEBERG 94-MC-022	\$123,400 01/04/94 \$123,400
CERAMICS DERIVED FROM METALLIC PRECURSORS Univ of Arizona	Uhleann Donald	R 04 12/11/93 \$50,000	ERSTFELD 94-MC-023	\$50,000 01/03/94 \$50,000
AASERT94 SYNTHESIS AND CHARACTERIZATION OF NOVEL METAL COMPOUND CLUSTER MATERIALS Georgia Univ Research Foundation Inc	Duncan Michael	N 36 12/11/93 \$110,170	BERMAN 94-MC-024	\$110,170 01/07/94 \$110,170
AASERT94 THEORETICAL DYNAMICS STUDIES OF CHEMICAL REACTIONS IN SOLIDS Oklahoma State University	Thompson Donald	N 36 12/11/93 \$157,000	BERMAN 94-MC-025	\$157,000 01/07/94 \$157,000
AASERT94 GLOBAL OPTIMIZATION AND SENSITIVITY ANALYSIS IN MOLECULAR STRUCTURE Princeton University	Floudas Christodoulos	N 36 12/11/93 \$149,731	BERMAN 94-MC-026	\$149,731 01/07/94 \$149,731

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AASERT94 PHOTO-INITIATED ION-MOLECULAR REACTIONS IN SIZE-SELECTED CLUSTERS Univ of California, Berkeley	Neuwark Daniel	N 36 15/11/93 \$150,000	A BERMAN 94-MC-027	\$150,000 01/07/94 \$150,000
AASERT94 CHARGE AND FIELD INDUCED SPECTROSCOPY OF SOLID HYDROGEN Univ of Chicago	Oka Takeshi	N 36 15/11/93 \$194,910	A BERMAN 94-MC-028	\$194,910 01/07/94 \$194,910
AASERT94 HIGH PERFORMANCE METAL FILMS: PREPARATION AND CHARACTERIZATION Univ of Cincinnati	Hubbard Arthur	N 36 15/11/93 \$100,285	D WILKES 94-MC-029	
AASERT94 CHEMISTRY INVOLVING THE PREPARATION, ISOLATION, AND IMMOBILIZATION OF NANOCRYSTALLINE AND/OR MICROCRYSTALLINE BORON Duke University	Wells Richard	N 36 15/11/93 \$139,000	A ERSTFELD 94-MC-030	\$134,795 01/07/94 \$136,000
AASERT94 NOVEL MATERIALS AND DEVICES FROM SELF-ASSEMBLED PERIODIC STRUCTURES Univ of Pittsburgh	Asher Sanford	N 36 15/11/93 \$119,025	A ERSTFELD 94-MC-031	\$119,025 01/07/94 \$119,025
AASERT94 INORGANIC-ORGANIC MOLECULAR BONDING IN POROUS MATRICES Univ of Florida	Hench Larry	N 36 15/11/93 \$88,600	A ERSTFELD 94-MC-032	\$87,902 15/08/94 \$88,600
AASERT94 MOLECULAR SIMULATIONS OF ULTRATHIN PERFLUOROPOLYETHER FILMS UNDER SHEAR Univ of Illinois	Granick Steve	N 36 15/11/93 \$145,545	A ERSTFELD 94-MC-033	\$145,545 15/07/94 \$145,545
AASERT94 FABRICATION OF FUNCTIONAL CERAMIC COMPOSITES - ZINC OXIDE ON ORGANIC SELF-ASSEMBLED MONOLAYERS Case Western Reserve University	Sukenik Chaim	N 36 17/11/93 \$222,355	A MEDBERG 94-MC-034	\$222,355 01/07/94 \$222,355
AASERT94 FLUORINATED PROPYLENE ARYL ETHERS University of Idaho	Shraeve Jeanne	N 36 17/11/93 \$164,232	D MEDBERG 94-MC-035	

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AASERT94 PROCESSING AND CHARACTERIZATION KNOWLEDGE BASE FOR DEVICE-COMPATIBLE SECOND-ORDER NONLINEAR OPTICAL POLYMERS Northeastern University	Wong George	N 36 17/11/93 \$104,435	A LEE 94-MC-036	\$102,053 01/07/94 \$104,435
AASERT94 DEVELOPMENT OF HUMAN RESOURCES THROUGH (ADVANCED) PROJECTS IN POLYMER SCIENCES AND TECHNOLOGY Illinois Institute of Technology	Mandal Braja	N 36 17/11/93 \$295,289	D LEE 94-MC-037	
AASERT94 NONLINEAR OPTICAL RESPONSE OF CONFINED EXCITONS IN MOLECULAR AND SEMICONDUCTOR NANOSTRUCTURES Univ of Rochester	Mukamel Shaul	N 36 17/11/93 \$298,925	A BERMAN 94-MC-038	\$148,463 01/07/94 \$148,463
AASERT94 ANISOTROPIC MORPHOLOGIES AND PROPERTIES OF PERMANENTLY ORIENTED(CHELUPORINATED IONOMER)/CINORGANIX OXIDE) NANOCOMPOSITES Univ of Southern Mississippi	Mauritz Kenneth	N 36 17/11/93 \$218,005	D LEE 94-MC-039	
AASERT94 THE MATERIALS SCIENCE AND MATHEMATICS OF BLOCK COPOLYMERS Massachusetts Institute of Technology	Thomas Edwin	N 36 17/11/93 \$139,536	A LEE 94-MC-040	\$136,887 15/06/94 \$139,536
AASERT94 FUNCTIONALIZED HIGH-TEMPERATURE POLYMERS FOR IMPROVED BONDING IN ORGANIC-INORGANIC COMPOSITES Univ of Cincinnati	Mark James	N 36 17/11/93 \$136,186	D LEE 94-MC-041	
AASERT94 ALL-OPTICAL POLYMER FIBER DEVICES Washington State University	Kuzyk Mark	N 36 17/11/93 \$125,215	A LEE 94-MC-042	\$125,215 01/06/94 \$125,215
AASERT94 MORE ORGANIC AND POLYMERIC SUPERCONDUCTORS University of Alabama	Metzger Robert	N 36 17/11/93 \$231,135	D LEE 94-MC-043	
AASERT94 ZETA-ALUMINA FIBER-MATRIX INTERFACIAL COATINGS Georgia Institute of Tech	Lackey W. Jack	N 36 17/11/93 \$273,608	A PECHENIK 94-MC-044	\$273,608 01/07/94 \$273,608

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AAASRT94 FOCUSED, FUNDAMENTAL STUDIES OF FRACTURE & WEAR IN COVALENTLY BONDED MATERIALS Univ of Florida	Mecholsky, Jr	N 36 17/11/93 \$93,000	D PECHENIK 94-MC-045	
AAASRT94 NOVEL TRACE ELEMENT ANALYSIS APPROACHES TO PREDICT (PENDING FAILURE OF COMPOSITE BEARINGS Univ of Florida	Winefordner	N 36 17/11/93 \$150,000	D PECHENIK 94-MC-046	
AAASRT94 A STUDY OF THE ENVIRONMENTAL DEGRADATION OF CERAMIC MATERIALS IN AEROSPACE STRUCTURES BY MEANS OF DYNAMIC ANALYSIS Univ of Florida	Whitney	N 36 17/11/93 \$93,000	D PECHENIK 94-MC-047	
AAASRT94 CREEP RESISTANCE OF GAMMA-TIAL MICROSTRUCTURES Carnegie-Mellon University	Pollock	N 36 17/11/93 \$197,966	A WARD 94-MC-048	\$150,000 01/07/94 \$150,000
AAASRT94 ELECTRON MICROSCOPY AND HIGH TEMPERATURE FATIGUE STUDIES OF NIAL SINGLE CRYSTALS Stanford University	Mix	N 36 17/11/93 \$153,550	A WARD 94-MC-049	\$150,000 01/07/94 \$150,000
NON-HALOGENATED FIRE EXTINGUISHANTS Univ of New Mexico	Tapscott	N 36 24/11/93 \$374,935	A NEUBERG 94-MC-050	\$249,956 08/04/94 \$374,935
NEW TOOLS FOR MOLECULAR STRUCTURE DETERMINATION: GLOBAL OPTIMIZATION AND IDENTIFICATION OF CRITICAL VARIABLES Princeton University	Rabitz	N 36 01/12/93 \$450,000	A BERMAN 94-MC-052	\$150,000 01/02/94 \$450,000
THE POLYMER CHEMISTRY OF BUTADIENES AND THEIR POTENTIAL AS PRECURSORS OF NOVEL CONJUGATED POLYMERS Howard University	Pollack	N 36 09/12/93 \$275,618	NEUBERG 94-MC-055	
CALIXARENE FUNCTIONALIZED POLYMERS FOR THE COMPLEXATION OF ACTINIDES AND HEAVY METALS Tulane University	Roundhill	N 36 14/12/93 \$403,186	D NEUBERG 94-MC-056	

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THE POTENTIAL USE OF THE RHIZOSPHERE EFFECT TO ENHANCE BIOREMEDIATION OF SURFACE SOILS CONTAMINATED WITH STEK Iowa State University	Joel	N 12 14/12/93 \$32,013	D MEBERG 94-MC-057	\$15,030 01/03/94 \$15,030
EQUIPMENT FOR IN-SITU STUDIES OF METAL ON III-V SEMICONDUCTORS				
Northwestern University	Marks	N 12 19/12/93 \$15,030	A ERSTFELD 94-MC-050	\$15,030 01/03/94 \$15,030
WORKSHOP ON CROSS-DISCIPLINARY ISSUES IN THE DEVELOPMENT OF ADVANCED STRUCTURAL MATERIALS Office of Naval Research	Fishman	N 12 16/12/93 \$12,500	A WARD 94-MC-059	\$12,500 23/05/94 \$12,500
STATE RESOLVED DYNAMICS OF ION-MOLECULE PROCESSES				
Univ of Colorado	Leone	N 36 18/12/93 \$691,763	BERMAN 94-MC-061	
THEORETICAL AND EXPERIMENTAL STUDIES OF FEMTOSECOND PULSED LASER DEPOSITION AND NONSTATISTICAL DYNAMICS Oklahoma State University	Raff	N 36 23/12/93 \$434,205	BERMAN 94-MC-062	
THE SYNTHESIS AND PROCESSING OF INTERMETALLIC-BASED FUNCTIONALLY- GRADED MATERIALS Colorado School of Mines	Moore	N 48 23/12/93 \$436,495	WARD 94-MC-063	
NINTH INTERDISCIPLINARY LASER SCIENCE CONFERENCE (ILS-X)				
Univ of Arizona	Peyghambarian	N 12 23/12/93 \$5,000	D BERMAN 94-MC-064	
NOVEL FABRICATION ROUTES TO GRAIN ORIENTED PIEZOELECTRIC CERAMICS				
General Atomics	Strecker	N 36 23/12/93 \$426,347	PECHENIK 94-MC-065	
HIGH CONTRAST ORGANIC CRYSTAL OPTICAL MODULATOR FOR PHASED ARRAY ANTENNA AND OPTICAL SIGNAL PROCESSING SYSTEMS Jet Propulsion Laboratory	Harder	N 12 23/12/93 \$130,200	A LEE 94-MC-066	\$126,146 01/10/93 \$129,234

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PHOTO DEPOSITION IN GLASSES Queens College	Gafney	N 24 23/12/93 \$249,767	A LEE 94-MC-067	9130.648 01/04/94 9249.767
PHOTOPHETICAL STUDIES OF GROUP IVA AND GROUP IVB CHEMISTRY Iowa State University	Gordon	N 36 31/12/93 \$445,475	BERMAN 94-MC-068	
POTENTIAL ENERGY SURFACES AND DYNAMICS FOR HIGH ENERGY SPECIES Iowa State University	Gordon	N 36 31/12/93 \$251,180	BERMAN 94-MC-069	
ORIENTATION SELECTIVE PROCESSING OF FUNCTIONAL CERAMICS Purdue Research Foundation	Bowman	N 36 31/12/93 \$616,493	PECHEMIA 94-MC-070	

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INVESTIGATION OF ATOMIC PHYSICS AND FREQUENCY STABILITY WITH A COHERENT HYDROGEN LASER Smithsonian Institution	Walewarth Ronald	N 36 07/10/93 \$271,000	A KELLEY 94-NE-001	0100,000 15/01/94 \$271,000
CAASERT) PLASMA IMMERSION ION IMPLANTATION PROCESS FOR SEMICONDUCTOR FABRICATION Northeastern University	Chan Chung	N 36 19/10/93 \$230,739	A BARKER 94-NE-002	\$237,039 30/12/93 \$230,739
1994 GORDON CONFERENCE ON POINT DEFECTS, LINE DEFECTS, AND INTERFACES IN SEMICONDUCTORS Gordon Research Conferences Inc	Cruikshank Alexander	N 12 22/10/93 \$3,000	POMREME 94-NE-004	
HIGH TUNABLE MICROWAVE SOURCES Cornell University	Nation John	R 12 25/10/93 \$36,775	A BARKER 94-NE-005	\$36,775 01/02/94 \$36,775
ION-MOLECULE CHEMISTRY RELATED TO PLASMA DEPOSITION AND ETCHING OF SILICON Univ of Utah	Armentrout Peter	N 01 26/10/93 \$201,507	D KELLEY 94-NE-006	
PHYSICS UTILIZING SPIN-POLARIZED GASES Princeton University	Mapper Will	N 36 08/11/93 \$993,566	A KELLEY 94-NE-007	\$50,000 01/07/94 \$450,000
ELECTRONIC TRANSPORT AND QUANTUM INTERFERENCE IN BALLISTIC NANOSTRUCTURES Ball State University	Joe Yong	N 36 08/11/93 \$294,216	D WITT 94-NE-008	
DEVELOPMENT OF ADVANCED ELECTRONIC MATERIALS AND DEVICES FOR ULTRA-LOW 1/F NOISE AND LOW LEAKAGE CURRENT APPLICATIONS Univ of Missouri	Handel Peter	N 48 09/11/93 \$335,303	A WITT 94-NE-010	\$43,207 01/06/94 \$162,525
THE APPLICATION OF HIGH MAGNETIC FIELDS IN SEMICONDUCTOR PHYSICS Massachusetts Institute of Technology	Heiman Don	N 06 15/11/93 \$7,000	POMREME 94-NE-011	

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(AASERT94-058) RELIABILITY IMPROVEMENT IN HIGHLY PARALLEL ACCESS MEMORIES Univ of Arizona	Neifeld Mark	N 36 15/11/93 \$128,333	A CRAIG 94-ME-012	0126.019 01/06/94 0128.333
(AASERT94-023) NEAR INFRARED-SENSITIVE OPTICALLY ADDRESSED SPATIAL LIGHT MODULATORS Univ of Colorado	Moddel Garret	N 36 15/11/93 \$180,627	D CRAIG 94-ME-013	
(AASERT94-045) HOLOGRAPHIC ASSOCIATIVE MEMORIES FOR DATABASE PROCESSING Colorado State University	Mitkas Pericles	N 36 15/11/93 \$135,825	A CRAIG 94-ME-014	0135.835 15/06/94 \$135.835
(AASERT94-002) COHERENT TRANSIENT SIGNAL PROCESSING Univ of Washington	Babbitt Willow	N 36 15/11/93 \$79,109	D CRAIG 94-ME-015	
(AASERT94-056) GAAS-GAINP SUPERLATTICE FOR INTRASUBBAND PHOTODETECTION Northwestern University	Razeghi Nanijeh	N 36 15/11/93 \$226,044	D PORRENKE 94-ME-016	
(AASERT94-157) COULOMB EFFECTS IN RESONANTLY COUPLED QUANTUM WAVEGUIDES Univ of Notre Dame	Porod Wolfgang	N 36 15/11/93 \$139,998	D PORRENKE 94-ME-017	
(AASERT94-165) EPITAXIAL METALLIZATIONS FOR III-V SEMICONDUCTORS Univ of Minnesota	Cohen Philip	N 36 15/11/93 \$132,282	A PORRENKE 94-ME-018	0131.610 30/06/94 0132.282
(AASERT94-025) IN ANJ SR BASED III-V MICROSTRUCTURES WITH NOVEL ELECTRONIC PROPERTIES California Institute of Technology	McGill Thomas	N 36 15/11/93 \$169,391	D PORRENKE 94-ME-019	
(AASERT94-111) STUDENT SUPPORT FOR MSE RESEARCH IN OPTOELECTRONICS Colorado State University	Robinson Gary	N 36 15/11/93 \$130,852	D PORRENKE 94-ME-020	

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(AASERT94-063) ELECTRICAL PROPERTIES OF BLUE LASER DIODES Purdue University	Robert Gunshor	N 36 15/11/93 \$150,000	A POMREWE 94-ME-021	\$143,660 01/07/94 \$143,660
(AASERT94-004) SHOOTING AND BOUNCING RAYS: PROPAGATION CHANNEL MODELLING FOR WIRELESS COMMUNICATIONS Univ of Texas	Edward Powers	N 36 15/11/93 \$100,000	D SMITH 94-ME-022	
(AASERT94-054) JSEP AUGMENTATION PROPOSAL: VELOCITY OVERSHOOT IN SILICON INVERSION LAYER Univ of California, Berkeley	Michael Lieberman	N 36 15/11/93 \$155,275	A SMITH 94-ME-023	\$143,660 01/07/94 \$143,660
(AASERT94-136) HIGH-SPEED METEROJUNCTION BIPOLAR TRANSISTOR MODEL AND CAD TOOL DEVELOPMENT Univ of Central Florida	Jun Liou	N 36 15/11/93 \$120,564	MITT 94-ME-024	
(AASERT94-155) FABRICATION AND PROPERTIES OF HIGH-PERFORMANCE GRADED QUANTUM STRUCTURES Univ of California, Santa Barbara	Arthur Gossard	N 36 15/11/93 \$162,311	A MITT 94-ME-025	\$143,660 01/07/94 \$143,660
(AASERT94-015) A STUDY OF IMPACT IONIZATION AND BREAKDOWN PHENOMENA IN SIGL DEVICES Univ of Michigan	Pallab Bhattacharya	N 36 15/11/93 \$156,026	A MITT 94-ME-026	\$143,667 30/06/94 \$143,667
(AASERT94-114) DEVELOPMENT OF ELECTRONIC DEVICES AND DEVICE PROCESSING TECHNOLOGY IN 6HA-SIC AND B-SIC Oregon Graduate Institute	James Parsons	N 36 15/11/93 \$250,042	D MITT 94-ME-027	
(AASERT94-137) OPTICAL TARGET RECOGNITION Florida Institute of Technology	Samuel Kozaitis	N 12 16/11/93 \$17,347	D CRAIG 94-ME-028	
(AASERT94-041) SLIGHTED HIGH-HARMONIC PENIOTRON OSCILLATOR Univ of California, Davis	Novillo Luemann, Jr.	N 36 16/11/93 \$149,078	A BARKER 94-ME-029	\$149,078 30/06/94 \$149,078

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(AASERT94-024) ULTRA-WIDE3AND MILLIMETER-WAVE PHOTOCATHODE FREE-ELECTRON LASER Univ of California, Davis	Luhmann, Jr.	Neville	N 36 16/11/93 9149,878	D BARKER 94-ME-030	
(AASERT94-169) ELECTRICAL AND THERMAL STABILITY OF ULTRA SHARP SILICON FIELD EMITTERS Pennsylvania State University	Cutler	Paul	N 36 16/11/93 9110,567	D BARKER 94-ME-031	
(AASERT 94-007) LABORATORY INVESTIGATION OF DIFFUSE PLASMA MODES Massachusetts Institute of Technology	Lee	Min-Chang	N 36 16/11/93 9250,864	D BARKER 94-ME-032	
(AASERT 94-129) ADVANCEMENT OF MINORITY STUDENTS IN PLASMA SCIENCE Knoxville College	Rader	Mark	N 36 16/11/93 9245,472	D BARKER 94-ME-033	
(AASERT 94-119) HIGH POWER MICROWAVES Texas Tech University	Kristiansen	Magne	N 36 16/11/93 9144,168	A BARKER 94-ME-034	9143,529 30/06/94 9144,168
(AASERT 94-075) OBJECT ORIENTED FORMULATIONS FOR PARTICLE-IN-CELL (PIC) SIMULATIONS Univ of California, Berkeley	Sirdsall	Charles	N 36 16/11/93 9147,767	A BARKER 94-ME-035	9147,767 30/06/94 9147,767
(AASERT 94-060) INVESTIGATION OF A RF GLOW DISCHARGE PLASMA OPERATING AT ONE ATMOSPHERE Univ of Tennessee	Roth	J	N 36 16/11/93 9141,941	D BARKER 94-ME-036	
(AASERT 94-036) COHERENT PHONON MODULATION OF THE ELECTRONIC PROPERTIES OF NARROW-GAP MATERIALS Massachusetts Institute of Technology	Ippen	Erich	N 36 16/11/93 9147,937	A SCHLOSSER 94-ME-037	9146,127 30/06/94 9147,937
(AASERT 94-165) SCANNING TUNNELING MICROSCOPY OF IN-SITU CAURICATED NOVEL MATERIALS Univ of Arizona	Sarid	Ofer	N 36 16/11/93 9244,967	D SCHLOSSER 94-ME-038	

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CAASERT 94-005) ELECTRON AND NONLINEAR OPTICS IN SEMICONDUCTORS Univ of Arizona	Khitrova Galina	N 36 16/11/93 9100,168	D SCMLOSSBER 94-NE-039	9110,048 30/06/94 9110,048
CAASERT 94-103) MEASUREMENT OF THE LINEWIDTH ENHANCEMENT FACTOR AT HIGH EXCITATION LEVELS Univ of New Mexico	Brueck Steven	N 36 16/11/93 9110,048	A SCMLOSSBER 94-NE-040	9110,048 30/06/94 9110,048
CAASERT 94-018) ADVANCED INTEGRATED OPTICAL DEVICE SIMULATIONS: A "PISCES" PROGRAM FOR OPTICAL DEVICES Columbia University	Osgood, Jr Richard	N 36 16/11/93 9130,982	D SCMLOSSBER 94-NE-041	
CAASERT 94-042) VISIBLE LASERS IN FIBERS AND WAVEGUIDES: NEW X-RAY GENERATING TARGETS Univ of Illinois	Eden Gary	N 36 16/11/93 9175,071	D SCMLOSSBER 94-NE-042	9143,567 30/06/94 9143,567
CAASERT 94-044) EFFICIENT NEAR AND MID-INFRARED DIELECTRIC WAVEGUIDE LASERS Univ of New Mexico	Jain Ravinder	N 36 16/11/93 9143,567	A SCMLOSSBER 94-NE-043	9143,567 30/06/94 9143,567
CAASERT 94-173) X-RAY MICROSCOPY OF BIOLOGICAL SAMPLES WITH LASER PLASMA Univ of Central Florida	Richardson Martin	N 12 16/11/93 970,314	A SCMLOSSBER 94-NE-044	9110,000 30/06/94 9110,000
CAASERT 94-026) COMPUTER MODELLING AND SIMULATION OF SINGLE-ELECTRON DEVICES State University of New York	Likharev Konstantin	N 36 16/11/93 9115,263	D WEINSTOCK 94-NE-045	
CAASERT 94-034) PARALLEL NANOSTRUCTURING OF ELECTRONIC SOLIDS Univ of Colorado	Douglas Kenneth	N 36 16/11/93 995,227	D WEINSTOCK 94-NE-046	9149,323 30/06/94 9149,324
CAASERT 94-158) VORTEX DYNAMICS IN LIGHTLY-DOPED FILMS OF HIGH TEMPERATURE SUPERCONDUCTORS Ohio State University	Lemberger Thomas	N 36 16/11/93 9149,524	A WEINSTOCK 94-NE-047	

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(AASERT 94-147) MODIFICATION OF HIGH TC SUPERCONDUCTORS BY ION IMPLANTATION Stanford University	Geballe Theodoro	N 36 16/11/93 \$149,225	A WEINSTOCK 94-ME-048	\$149,224 30/06/94 \$149,225
(AASERT 94-13) SQUID MEASUREMENTS AND MODELING FOR AIRCRAFT NOE Vanderbilt University	Wikswo John	N 36 16/11/93 \$149,451	A WEINSTOCK 94-ME-049	\$149,451 30/06/94 \$149,451
(AASERT 94-071) STUDENT TRAINING IN HIGH-TEMPERATURE SUPERCONDUCTING ELECTRONICS Univ of Rochester	Sobolewski Roman	N 36 16/11/93 \$125,300	D WEINSTOCK 94-ME-050	
(AASERT 94-061) HIGH TEMPERATURE SUPERCONDUCTING COMPOUNDS AASERT PROGRAM Univ of Minnesota	Goldman Allen	N 36 16/11/93 \$148,980	D WEINSTOCK 94-ME-051	
(AASERT 94-121) AASERT TRAINING AND RESEARCH IN STM METHODS FOR FABRICATION OF MESOSCALE CUPRATE SUPERCONDUCTOR ELECTRON DEVICES Polytechnic University	Wolf Ed	N 36 16/11/93 \$149,005	D WEINSTOCK 94-ME-052	
(AASERT 94-174) SPECTROSCOPY OF RARE EARTH-DOPED III-V MATERIALS AND STRUCTURES Univ of Illinois	Eden Gary	N 36 16/11/93 \$175,071	D POMRENKE 94-ME-053	\$150,000 15/07/94 \$150,000
(AASERT 94-098) DEPOSITION OF GALLIUM NITRIDE EPILAYERS BY OMVPE Carnegie-Mellon University	Skoronski Marko	N 36 16/11/93 \$183,222	A POMRENKE 94-ME-054	\$150,000 15/07/94 \$150,000
(AASERT 94-043) MEASUREMENT OF HETEROGENEOUS DEACTIVATION OF VIBRATIONALLY-EXCITED HOMONUCLEAR MOLECULES AT SOLID SURFACES Univ of Dayton	Taney Perry	N 36 22/11/93 \$118,514	A KELLEY 94-ME-055	\$117,907 30/06/94 \$118,514
(AASERT 94-142) DESIGN OF OPERATIONAL TRANSDUCANCE AMPLIFIERS USING HBT DEVICES FOR MICROWAVE ACTIVE FILTER APPLICATIONS Ohio University	Mokari M	N 36 22/11/93 \$90,591	D WITT 94-ME-056	

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(AASERT 94-084) SLOTTED HIGH-HARMONIC GYROKLYSTRON AMPLIFIER Univ of California, Davis	Luhmann, Jr Noville	N 36 22/11/93 \$149,878	D BARBER 94-ME-057	
(AASERT 94-101) THE EFFECTS OF A NEW CLASS OF OXIDE TRAPPING CENTERS ON THE PERFORMANCE DEGRADATION OF MOS TECHNOLOGIES Univ of Arizona	Galloyay Kenneth	N 36 22/11/93 \$129,005	D POMREME 94-ME-050	
(AASERT 94-100) SYNTHESIS AND EVALUATION OF NOVEL DIFFUSION BARRIERS IN CVD CU METALLIZATION Arizona State University	Kouvetakis John	N 36 22/11/93 \$161,676	D POMREME 94-ME-059	
(AASERT 94-097) DEVELOPMENT OF MOVING DISK NOISYAG AND NOISGCM LASERS PUMPED BY PULSED DIODE LASERS Howard University	Kushnaha Vikram	N 36 23/11/93 \$123,675	D SCHLOSSER 94-ME-060	
(AASERT 94-083) MEASUREMENT OF MICRO-MIRROR SURFACE DEFORMATION Univ of Dayton	Gustafson Steven	N 36 23/11/93 \$104,752	D SCHLOSSER 94-ME-061	
(AASERT 94-102) VERTICAL CAVITY SURFACE EMITTING LASERS Cornell University	Schaeff William	N 36 23/11/93 \$375,681	D SCHLOSSER 94-ME-062	
(AASERT94-152) OPTICAL UP-CONVERTER FOR PHASED ARRAYS USING NARROW BAND, TUNABLE OPTICAL MODULATION AT MILLIMETER WAVE FREQUENCIES Univ of California, Berkeley	Lau Kam	N 36 23/11/93 \$280,712	D SCHLOSSER 94-ME-063	
(AASERT 94-103) OPTICAL DEVICES BASED ON ADVANCED ORGANIC POLYMERS Washington University	Krchnavek Robert	N 36 23/11/93 \$126,532	D CRAIG 94-ME-064	
(AASERT 94-082) DESIGN, FABRICATION, AND TEST OF PLZT ELECTRO OPTICAL PROGRAMMABLE GRATINGS/PRISMS FOR OPTICAL INTERCONNECTION Syracuse University	Song Q	N 36 23/11/93 \$104,179	D CRAIG 94-ME-065	

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CASERT 94-093) ADAPTIVE PHASED ARRAY RADAR SIGNAL PROCESSING USING PHOTOREFRACTIVE VOLUME HOLOGRAMS Univ of Colorado	Wagner Kelvin	N 36 23/11/93 \$156,091	D CRAIG 94-ME-066	
CASERT 94-113) TECHNOLOGICAL DEVELOPMENT FOR INTERFACING PARALLEL ACCESS MEMORIES TO PARALLEL COMPUTERS Univ of California, San Diego	Esenor Sadiq	N 36 23/11/93 \$190,359	A CRAIG 94-ME-067	9121.645 01/06/94 9122.000
CASERT 94-073) ELECTRONIC PROPERTIES OF GAA5 FILMS GROWN ON SILICON WITH INSE BUFFER LAYERS Washington State University	Olsen Larry	N 36 23/11/93 \$88,054	D POMRENKE 94-ME-068	
ORGANIZATION OF A SECOND WORKSHOP ON WIDE BANDGAP NITRIDES Univ of Illinois	Morkoc Hadi	N 12 24/11/93 \$4,000	A WITT 94-ME-069	94.000 01/03/94 94.000
QUANTUM NOISE IN OPTICAL NETWORK Univ of Wisconsin	Saleh Bahaa	N 24 24/11/93 \$303,000	CRAIG 94-ME-071	
OPTICAL FREQUENCY STANDARDS, DIODE LASERS, AND PRECISION MEASUREMENT Univ of Colorado	Hollberg Leo	R 36 24/11/93 \$271,000	A KELLEY 94-ME-072	9100.000 01/07/94 9271.000
FAST-ATOM STUDIES OF THE ELECTRON-IMPACT IONIZATION OF NEUTRAL AND IONIC FREE RADICALS AND MOLECULES City University of New York	Sacker Kurt	N 36 30/11/93 \$371,465	D KELLEY 94-ME-073	
CASERT 94-131) ATOMIC TEM COOLING WITH LASER RADIATION Florida International University	Hardy Kenneth	N 36 01/12/93 \$145,000	D KELLEY 94-ME-074	
CASERT 94-176) FIBER OPTIC SENSORS FOR SMART METALLIC STRUCTURES Virginia Polytechnic Inst & State Univ	Murphy Kent	N 36 01/12/93 \$142,700	D SCHLOSSER 94-ME-075	

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(AASTRT 94-190) ADVANCED 3M-CHIP INTERCONNECTS: CU ON SIGEC/SI	Mayer	N 36 01/12/93 \$174,425	A WITT 94-ME-076	9130.000 30/06/94 9130.000
Arizona State University	James			
(JSECP) RESEARCH IN ELECTRONICS	Steier	N 36 06/12/93 \$2,937,975	A SMITH 94-ME-077	8991.000 01/04/94 82,682,234
Univ of Southern California	Illian			
FUNDAMENTAL STUDIES OF GAAS SURFACE PASSIVATION FOR IMPROVED SEMICONDUCTOR MANUFACTURING	Weinberg	N 36 06/12/93 \$375,177	POMRENKE 94-ME-079	
Univ of California, Santa Barbara	M			
HOT CARRIER THERMOMETRY IN HETEROSTRUCTURES AND HETERODEVICES	Belenky	N 36 06/12/93 \$461,613	D WITT 94-ME-080	
Univ of Maryland	Gregory			
OPTOELECTRONIC DEVICES BASED ON NOVEL SEMICONDUCTOR STRUCTURES	Ding	N 36 06/12/93 \$109,959	A CRAIG 94-ME-081	910.000 04/02/94 9109.959
Bowling Green University	Yujie			
MATERIALS ENGINEERING NOVEL SEMICONDUCTOR STRUCTURES	Khurgin	R 36 06/12/93 \$388,146	A CRAIG 94-ME-082	894.971 15/03/94 9389.548
Johns Hopkins University	Jacob			
DIFFRACTIVE MODULATORS AND INTERFEROMETRIC RECEIVERS FOR ULTRA- HIGH BANDWIDTH OPTICAL COMMUNICATIONS	Brady	N 36 09/12/93 \$532,206	CRAIG 94-ME-083	
Univ of Illinois	David			
OPTICAL, ELECTRONICS AND OPTOELECTRONIC MATERIALS AND DEVICES DESCAPCH	Varviv	N 36 14/12/93 \$570,000	A SCHLOSSER 94-ME-084	9190.000 15/12/94 9190.000
California Institute of Technology	Annon			
ORGANIZATION OF THE 1994 PHOTONICS SCIENCE TOPICAL MEETINGS	Mennage	R 12 17/12/93 \$80,000	A SCHLOSSER 94-ME-085	865.000 15/04/94 950.000
Optical Society of America	David			

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NUMERICAL STUDIES OF THE PHYSICS AND OPERATION OF LTG MATERIALS
AND DEVICES
Scientific Research Associates, Inc.

INVESTIGATOR

Grubin Harold

LOGIC PRIMITIVES FOR MULTI-WAVELENGTH INFORMATION PROCESSING
Georgia Institute of Tech Blumenthal Daniel

TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
N 36 23/12/93 9362.954	A WITT 94-ME-086	979.000 15/03/94 9362.954
N 12 28/12/93 922.478	A CRAIG 94-ME-087	922.478 31/12/93 922.478

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A SYSTEM DYNAMICS MODEL OF THE MAGNETOSPHERE FOR SPECIFYING AND -ORCASTING SELECTED MAGNETOSPHERIC PARAMETERS Boston University	Siscoe George	M 12 24/11/93 \$153,720	A HART 94-NI-001	9140.910 00/11/93 9140.910
NONLINEAR OPTICS OF METAL COATED QUANTUM DOTS Pennsylvania Polytechnic Institute	Birnboim Meyer	M 12 24/11/93 \$52,290	A HART 94-NI-002	939.217 01/01/94 939.217
A RESEARCH TRANSFER EFFORT IN EM RADIATION ANALYSIS BETWEEN ARNSTR ONG LABORATORY & VIRGINIA STATE UNIVERSITY Virginia Polytechnic Inst & State Univ	Agarwal Krishan	M 12 13/12/93 \$82,699	A HART 94-NI-003	965.493 94/02/01 965.493
MOLECULAR ORBITAL CALCULATIONS OF ELECTRONIC PROPERTIES AND STABI LITY OF MLO AND RELATED MATERIALS Univ of Missouri	Connolly John	M 12 16/12/93 \$85,375	A HART 94-NI-004	964.035 01/01/94 964.035

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PERCEPTUAL INHIBITION OF EXPECTED INPUTS Univ of Utah	Johnston	R 48 05/10/93 \$734,087	TANGNEY 94-NL-001	
ARGUMENT EVALUATION AND PROBABILITY JUDGMENT Univ of Michigan	Smith	R 36 12/10/93 \$350,158	TANGNEY 94-NL-004	
MODELING EARLY DENDRITIC INTEGRATION IN THE EYE OF THE FLY Univ of New Mexico	Donohoe	N 48 12/10/93 \$645,457	D TANGNEY 94-NL-005	
DECISION PROCESSES IN RECOGNITION MEMORY Univ of North Carolina	Mirshman	N 36 12/10/93 \$176,658	D TANGNEY 94-NL-006	
INTERACTION OF LIGHT AND CLOCK REGULATION IN NEUROSPORA Dartmouth College	Loros	N 36 14/10/93 \$923,086	A MADDOX 94-NL-008	\$175,000 01/04/94 \$515,000
A GENETIC APPROACH TO MAMMALIAN CIRCADIAN RHYTHMS Univ of Pennsylvania	Bucan	N 36 14/10/93 \$1,069,402	A MADDOX 94-NL-009	\$175,000 01/05/94 \$505,000
BEHAVIORAL REGULATION OF CIRCADIAN CLOCKS Univ of Toronto	Mrosovsky	N 36 15/10/93 \$254,502	MADDOX 94-NL-011	
PHASE SHIFTING EFFECTS OF LIGHT AND ACTIVITY ON THE HUMAN CIRCADIAN CLOCK Univ of Chicago	Van Cauter	R 36 18/10/93 \$570,630	A MADDOX 94-NL-014	\$130,000 01/03/94 \$390,000
CHANGES IN SENSORY RESPONSIVENESS DURING CONTROLLED WRIST MOVEMENTS MADE BY BEHAVING MONKEYS AND HUMAN SUBJECTS Univ of Tennessee	Nelson	R 36 01/11/93 \$357,245	MADDOX 94-NL-017	

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NONLINEAR NEARFIELD WAVE PROPAGATION IN AN ENDOCHRONIC SOLID San Diego State University Foundation	Day	N 36 08/11/93 \$125,000	A DICKINSON 94-ML-010	941,265 15/03/94 \$125,000
VIBRO-ASFO STRATEGIES FOR FORM & MOTION FUSION IN OBJECT RECOGNITION & ROBOTIC EXPLORATION Massachusetts Institute of Technology	Waxman	N 12 16/11/93 \$94,835	A TANGNEY 94-ML-019	994,835 01/10/93 \$94,835
GRAVITY WAVES AND CONVECTION IN THE ATMOSPHERE NASA - Goddard Space Flight Center	Einaudi	N 12 17/11/93 \$124,450	A KROLL 94-ML-020	\$124,450 01/10/93 \$124,450
TURNOVER OF THE STRESS INDUCED PROTEIN, MSP70. Univ of Wyoming	Peterson	R 24 17/11/93 \$205,860	A KOZUMBO 94-ML-021	\$101,410 01/07/94 \$205,815
MECHANISMS OF MOLECULAR RESPONSES IN MAMMALIAN CELLS EXPOSED TO PHYSICAL AGENTS (ALONE AND IN COMBINATION) Univ of Texas Health Science Ctr	Meltz	R 36 18/11/93 \$899,160	KOZUMBO 94-ML-022	
PREDICTION AND ASSESSMENT OF DERMAL EXPOSURE Univ of California, San Francisco	Guy	N 36 18/11/93 \$534,404	A KOZUMBO 94-ML-023	\$175,972 01/07/94 \$534,404
ASERT-94 UPPERMOST MANTLE STRUCTURE IN THE MIDDLE EAST, CENTRAL ASIA, LAKE BAIKAL, & FAR EAST FROM PM TOMOGRAPHY & SN ATTENUATION New Mexico State University	Hearn	N 36 18/11/93 \$89,653	A DICKINSON 94-ML-024	888,993 01/07/94 \$89,653
ASERT-94 THE APPLICATION OF BROADBAND ARRAYS AND NETWORKS TO SEISMIC MONITORING OF UNCALIBRATED REGIONS Univ of South Carolina	Owens	N 36 18/11/93 \$75,488	A DICKINSON 94-ML-025	875,488 01/07/94 \$75,488
ASERT-94 A NON-LINEAR FRACTURE MECHANICS MODEL FOR SPALLATION AND COUPLING OF NUCLEAR EXPLOSIONS DETONATED IN HARD ROCK Univ of Southern California	Sambis	N 36 18/11/93 \$94,668	A DICKINSON 94-ML-026	894,668 01/07/94 \$94,668

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AASERT-94 ANALYSIS OF SOVIET DSS RECORDS FOR PROPAGATION AND MODEL ING OF LG BLOKAGE ACROSS MAJOR CRUSTAL FEATURES Univ of Wyoming	Schatzman James	N 36 19/11/93 \$119,064	A DICKINSON 94-NL-027	9119,064 01/07/94 9119,064
AASERT-94 HYDROACOUSTIC ARRAYS FOR SEISMIC DETECTION, LOCATION, AND DISCRIMINATION: A COMPARISON WITH LAND-BASED SEISMIC ARRAYS ---- Univ of California, San Diego	Orcutt John	N 36 19/11/93 \$83,194	A DICKINSON 94-NL-028	883,194 01/07/94 883,194
AASERT-94 BROADBAND SIGNAL ENHANCEMENT OF SEISMIC ARRAY DATA: APPL ICATION TO LONG-PERIOD SURFACE WAVES & HIGH FREQUENCY WAVEFIELDS Univ of California, San Diego	Vernon Frank	N 36 19/11/93 \$92,244	A DICKINSON 94-NL-029	892,244 01/07/94 892,244
AASERT-94 CHARACTERIZATION OF SEISMIC SOURCES USING EMPIRICAL GREE N'S FUNCTIONS Massachusetts Institute of Technology	Tokoz M. Nafi	N 36 19/11/93 \$140,840	A DICKINSON 94-NL-030	9135,233 01/07/94 9140,840
METABOLIC AND CIRCADIAN MODULATION OF HUMAN VISION Syracuse University	Barlow Robert	N 36 22/11/93 \$292,326	D TANGMEY 94-NL-031	
AASERT-94 AUGMENTATION AWARD FOR TRAINING IN AVIATION HUMAN FACTOR S & ERGONOMICS Texas Tech University	Endsley Mica	N 24 23/11/93 \$85,331	A COLLINS 94-NL-032	885,331 01/07/94 885,331
AASERT-94 INFLUENCE OF MULTISENSORY STIMULATION ON OCULAR MOTOR PER FORMANCE Univ of Pittsburgh	Furman Joseph	N 36 23/11/93 \$349,360	COLLINS 94-NL-033	
AASERT-94 EFFECTS OF SEROTONERGIC COMPOUNDS ON STRESS-INDUCED BEHA VIOR IN RATS Louisiana State Univ--School of Medicine	Dunn Adrian	N 36 29/11/93 \$121,239	A HADDAD 94-NL-034	9121,239 01/07/94 9121,239
AASERT-94 MICROBIAL TOXICITY OF NON-UNIFORM MIXTURES OF KENOBIOTIC CHEMICALS New Mexico State University	Khandan Nirmal	N 36 29/11/93 \$140,270	A KOTUMBO 94-NL-035	9140,270 01/07/94 9140,270

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AASERT-94 OCTANOL-WATER PARTITION COEFFICIENTS BY CAPILLARY ELECTROPHORESIS Univ of Cincinnati	Dorsey John	N 36 29/11/93 \$131,269	A KOZUMBO 94-ML-036	\$130,694 01/07/94 \$131,269
AASERT-94 ASSESSMENT OF SURFACTANT-ENHANCED BIOREMEDIATION OF SOILS CONTAINING STRONGLY ADSORBING Princeton University	Jaffe Peter	N 36 29/11/93 \$178,000	A KOZUMBO 94-ML-037	\$177,011 01/07/94 \$178,000
AASERT-94 ARGUMENTATION FOR HIGH-ENERGY ELECTRON BEAM-INDUCED IONOSPHERIC MODIFICATION EXPERIMENT Univ of Michigan	Neubert Torsten	N 36 29/11/93 \$78,499	A KROLL 94-ML-038	\$78,108 01/07/94 \$78,499
AASERT-94 GROUND CONNECTIVITY EFFECTS IN WIDEBAND ELECTRIC FIELDS RECORDED AT MULTIPLE STATIONS Univ of Florida	Thomson Eben	N 36 29/11/93 \$81,932	A KROLL 94-ML-039	\$81,932 01/07/94 \$81,932
AASERT-94 CONTROLLED EXPERIMENTS ON DUCTED WHISTLEPS Boston University	Lee Min-Chang	N 36 29/11/93 \$274,895	A KROLL 94-ML-040	\$274,733 01/07/94 \$274,895
SELF-CONSTRUCTION AND CO-CONSTRUCTION OF EXPLANATIONS DURING TUTORING Univ of Pittsburgh	Chi Micheline T.M.	N 30 30/11/93 \$242,260	D TANGMEY 94-ML-041	
SPACE-VARIANT ACTIVE VISION: SEGMENTATION, ATTENTION AND CONTROL Boston University	Schwartz Eric	N 36 30/11/93 \$536,616	TANGMEY 94-ML-042	
AASERT-94 MAGNETIC ACTIVITY IN ALGOL BINARIES Univ of Virginia	Richards Mercedes	N 36 30/11/93 \$139,870	A RADOSKI 94-ML-043	\$139,870 01/07/94 \$139,870
AASERT-94 DETERMINING THE MAGNETIC ENVIRONMENT IN WHICH SOLAR ACTIVITY OCCURS Stanford University	Sturrock Peter	N 36 01/12/93 \$149,047	A RADOSKI 94-ML-044	\$146,201 01/07/94 \$149,047

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AASERT-94 AUGMENTATION OF A GRANT ON WORKING MEMORY Univ of South Carolina	Engle Randall	N 24 01/12/93 \$102,524	A TANGMEY 94-WL-045	\$102,112 01/07/94 \$102,524
AASERT-94 EARLY SCENE ANALYSIS Harvard University	Cavanagh Patrick	N 36 01/12/93 \$165,371	A TANGMEY 94-WL-046	\$165,371 01/07/94 \$165,371
AASERT-94 ANALYSIS OF DIGITAL TELESEISMIC ARRAY DATA COLLECTED IN SOUTH CENTRAL SIBERIA AND NORTHERN MONGOLIA Univ of California, Los Angeles	Davis Paul	N 36 01/12/93 \$127,393	A DICKINSON 94-WL-047	\$127,393 01/07/94 \$127,393
VISUAL MOTION PERCEPTION AND VISUAL INFORMATION PROCESSING Univ of California, Irvine	Sperling George	R 60 01/12/93 \$1,244,024	A TANGMEY 94-WL-048	\$106,170 01/03/94 \$662,043
AASERT-94 PROPOSAL FOR A HYPERSPECTRAL SKY SURVEY Florida Institute of Technology	Rafert Bruce	N 36 01/12/93 \$121,381	RAOOSKI 94-WL-050	
CIRCADIAN RHYTHMS IN ZEBRAFISH Univ of Kansas	Cahill Gregory	N 24 16/12/93 \$190,527	A MADDAD 94-WL-053	\$92,471 01/09/94 \$92,940
SOCIETY FOR RESEARCH ON BIOLOGICAL RHYTHMS AND SYMPOSIUM Univ of Virginia	Moore Robert	N 12 22/12/93 \$10,000	A MADDAD 94-WL-054	\$10,000 01/04/94 \$10,000
PHYSIOLOGY, BIOCHEMISTRY, AND GENETICS OF A PURE CULTURE OF AN ORAL LABILE AMEROBIC BACTERIUM THAT UTILIZES 2,4,6-TRINITROTOLUENE.. University of Idaho	Crawford Ronald	R 36 22/12/93 \$487,701	A KOZUMBO 94-WL-055	\$101,725 01/07/94 \$487,701
DEVELOPMENT OF A QUANTITATIVE MODEL FOR PREDICTION OF PERCUTANEOUS ABSORPTION North Carolina State University	Williams Patrick	N 36 22/12/93 \$446,036	A KOZUMBO 94-WL-056	\$75,000 01/08/94 \$446,036

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IDENTIFICATION AND STUDY OF THE RETINAL GANGLION CELL BASIS OF CIR CAUTAN RHYTHMS Univ of Alabama	Author Franklin	N 36 27/12/93 9203.699	MA00AD 94-NL-057	
DIFFUSIBLE DRIVING AND COUPLING SIGNALS OF THE BIOLOGICAL CLOCK Carnegie College of Columbia University	Silver Roe	R 12 27/12/93 900.270	A MA00AD 94-NL-058	880.000 01/04/94 880.000

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WAVELETS, SIGNAL PROCESSING, & MATRIX COMPUTATION Air Force Institute of Technology	Suter Bruce	N 12 06/10/93 \$18,640	A SJOGREN 94-WN-001	917,931 01/10/93 \$18,640
THEORETICAL INVESTIGATION OF CHAOTIC DYNAMICS Univ of Maryland	Yorke James	N 36 26/10/93 \$164,015	MACMAN 94-WN-002	
SIGNAL PROCESSING AND DETECTION Air Force Institute of Technology	Suter Bruce	N 12 29/10/93 \$30,000	A SJOGREN 94-WN-003	\$30,000 29/10/93 \$30,000
SINGLE WAFER PLASMA REACTOR SIMULATOR Arizona State University	Cole Timothy	N 36 01/11/93 \$88,526	A JACOBS 94-WN-005	\$88,526 15/03/94 \$88,526
MODELING AND CONTROL OF NONLINEAR SYSTEMS Univ of Colorado	Hausser John	N 12 01/11/93 \$50,000	A JACOBS 94-WN-006	\$50,000 01/04/94 \$50,000
CHAOTIC SIGNAL PROCESSING: MONITORING & IDENTIFICATION OF CHAOTIC SIGNALS Northeast Research Associates, Inc.	Wright Jon	N 12 01/11/93 \$80,194	SJOGREN 94-WN-007	
MODELING OF IMP CRYSTAL GROWTH BY THE MLEK PROCESS Cambridge Hydrodynamics Incorporated	Orzag Steven	N 24 01/11/93 \$100,000	A JACOBS 94-WN-009	\$50,000 01/04/94 \$100,000
APPLICATION OF GEOMETRICAL ANHOLONOMITY TO THE GLOBAL POSITIONING SYSTEM & TO THE TECHNOLOGY OF WORLD-WIDE SYNCHRONIZATION Jettelle Columbus Labs	Corum James	N 12 01/11/93 \$49,073	D MACMAN 94-WN-010	
HANKEL OPERATORS IN CONTROL THEORY Michigan State University	Treil Serouel	N 36 10/11/93 \$216,246	D JACOBS 94-WN-011	

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PERFECT BINARY ARRAYS: VARIATIONS AND RELATED MATTERS Wright State University	Arasu K.	N 36 12/11/93 \$115,979	SJOGREN 94-MM-013	
(AASERT94) ULTRA-WIDEBAND ELECTROMAGNETICS Polytechnic University	Carin Lawrence	N 36 16/11/93 \$242,267	A NACHMAN 94-MM-015	\$139,023 01/06/94 \$142,000
AASERT94/PARAMETER ESTIMATION TOPICS IN ARRAY PROCESSING George Mason University	Van Trees Harry	N 36 16/11/93 \$214,841	D SJOGREN 94-MM-016	
(AASERT94) SELF-IMPROVING METHODS FOR MATERIALS AND PROCESS DESIGN Wright State University	Chen C. Phillip	N 36 16/11/93 \$118,334	A CLASSMAN 94-MM-017	\$69,407 01/06/94 \$70,000
AASERT94/DETELE POINTS DIAGNOSTICS FOR MULTIVARIATE ANALYSIS Univ of Kentucky	Stromberg Arnold	N 36 16/11/93 \$53,795	D SJOGREN 94-MM-018	
(AASERT94) RESEARCH ON ALGORITHMS IN A DISTRIBUTED ENVIRONMENT w/ CONCENTRATION ON DISTRIBUTED SIMULATION AND VISION Queens College	Brown Theodore	N 36 16/11/93 \$220,404	D CLASSMAN 94-MM-019	
(AASERT94) DESIGN OF AUTOMATED MANUFACTURING SYSTEMS AND THEIR CONTROLLERS Rutgers, The State University	Boucher Thomas	N 36 16/11/93 \$137,742	D CLASSMAN 94-MM-020	
AASERT94/RESEARCH TRAINING ON TARGET DETECTION & CLASSIFICATION WITH SYNTHETIC Univ of Florida	LI Jian	N 36 16/11/93 \$61,387	D SJOGREN 94-MM-021	
(AASERT94) DESIGNING OPTIMAL ACTUATION AND SENSING SYSTEMS Virginia Polytechnic Inst & State Univ	Burns John	N 36 16/11/93 \$193,761	A JACOBS 94-MM-022	\$192,244 01/09/94 \$193,761

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ASASERT94/APPLICATION OF GEOMETRIC INVARIANTS TO COMPUTER VISION Univ of Nebraska	Bhattacharya Prabir	N 36 16/11/93 \$63,000	A SJOGREN 94-NM-023	\$63,000 01/06/94 \$63,000
CAASERT94) ROBUST CONTROL THEORY AND APPLICATIONS California Institute of Technology	Doyle John	N 36 16/11/93 \$125,609	A JACOBS 94-NM-024	\$125,609 01/09/94 \$125,609
CAASERT94)VORTEX CORE DYNAMICS, COMPLEX HELICAL WAVE DECOMPOSITION & ORGANIZATION OF FINE-SCALE TURBULENCE, ETC. Univ of Houston	Mussain Fazlo	N 36 16/11/93 \$120,201	D NACHMAN 94-NM-025	\$125,609 01/09/94 \$125,609
CAASERT94) CFD RESEARCH TRAINING PROGRAM FOR MINORITY ENGINEERING UNDERGRADUATE STUDENTS Alabama ACM University	Lian Goang	N 36 16/11/93 \$66,009	D JACOBS 94-NM-026	\$104,433 01/09/94 \$104,433
CAASERT94) MOTION PLANNING FOR ENERGY MANAGEMENT IN AUTONOMOUS VEHICLES Boston University	Baillieu John	N 36 16/11/93 \$104,433	A JACOBS 94-NM-027	\$104,433 01/09/94 \$104,433
ASASERT94/OPTICALLY IMPLEMENTED WAVELET SIGNAL PROCESSING FOR WIDEBAND RADAR SYSTEMS Stevens Institute of Technology	Zoude Henry	N 36 16/11/93 \$136,057	D SJOGREN 94-NM-028	\$104,433 01/09/94 \$104,433
CAASERT94) STRUCTURE AND CONTROL OF THE WALL REGION IN A TURBULENT BOUNDARY LAYER/TRAINING Cornell University	Lumley John	N 36 16/11/93 \$151,032	D JACOBS 94-NM-029	\$104,433 01/09/94 \$104,433
CAASERT94) PERFORMANCE MEASURES FOR ANALYZING BROADBAND RESPONSE OF DIVERSE SENSORS Syracuse University	Sakar Tapan	N 36 16/11/93 \$83,022	A NACHMAN 94-NM-030	\$83,022 01/09/94 \$83,022
CAASERT94) WAVE PROPAGATION IN COMPLEX MEDIA Virginia Polytechnic Inst & State Univ	Kohler Werner	N 36 16/11/93 \$110,111	A NACHMAN 94-NM-031	\$110,111 01/06/94 \$110,111

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BAASRT94/AUGMENTATION TO THE "FORMAL DEFINITION OF AN INHERENTLY UNAMBIGUOUS SPECIFICATION LANGUAGE" RESEARCH EFFORT Univ of Texas, El Paso	Cooke	N 36 16/11/93 \$178,416	D SUDDARTH 94-MM-032	8134,946 01/06/94 8136,604
CAASRT94) VOID NUCLEATION AND GROWTH IN NONLINEAR SOLIDS Univ of Virginia	Morgan	N 36 16/11/93 \$136,604	A WACHMAN 94-MM-033	8134,946 01/06/94 8136,604
BAASRT94/ADAPTIVE RECONFIGURATION ALGORITHMS FOR REAL-TIME DISTRIBUTED SYSTEMS Univ of Massachusetts	Ganz	N 36 16/11/93 \$153,520	D SUDDARTH 94-MM-034	884,000 01/07/94 886,000
BAASRT94/AUGMENTATION FOR CONCEPTS, METHODS, & TOOLS FOR DESIGNING DEPENDABLE DISTRIBUTED SYSTEMS Univ of California, San Diego	Cristian	N 36 16/11/93 \$171,620	A SUDDARTH 94-MM-035	884,000 01/07/94 886,000
CAASRT94) A FINITE DIFFERENCE TIME DOMAIN BASED SOFTWARE FOR THE CHARACTERIZATION OF SUB-MM WAVEGUIDES AND COMPONENTS (FOTO-SMU) Univ of Michigan	Katehi	N 36 16/11/93 \$155,794	D WACHMAN 94-MM-036	884,000 01/07/94 886,000
CAASRT94) STATE SPACE IDENTIFICATION AND ACTIVE STRUCTURAL CONTROL FOR THE ACTEX FLIGHT EXPERIMENT Univ of Michigan	Bernstein	N 36 17/11/93 \$104,433	A JACOBS 94-MM-037	\$105,797 01/09/94 \$105,797
CAASRT94) INTELLIGENT CONTROL OF MATERIALS PROCESSES Univ of Cincinnati	Garrett	N 36 17/11/93 \$90,778	A JACOBS 94-MM-038	\$90,778 01/06/93 \$90,778
BAASRT94/RIME: RETRIEVAL OF INFORMATION FROM A MULTIPROCESSOR ENGINE George Mason University	Stewart	N 36 17/11/93 \$94,244	D SUDDARTH 94-MM-039	884,000 01/07/94 886,000
BAASRT94/SUPPLEMENTAL SUPPORT FOR RESEARCH ON LEARNING OBJECT AND SCENE RECOGNITION STRATEGIES Univ of Massachusetts	Riseman	N 36 17/11/93 \$207,950	D WACHMAN 94-MM-040	884,000 01/07/94 886,000

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ASERT94/THERMOPHYSICAL INVARIANTS FOR MULTISENSORY COMPUTER VISION Univ of Virginia	Nandhakumar Nagaraj	M 36 17/11/93 \$104,384	D WAKSMAN 94-MM-041	
HF WAVE PROPAGATION AND IONOSPHERIC MODELLING Univ of California, Los Angeles	Ashour-Abdellor Nagaraj	M 36 22/11/93 \$516,110	NACHMAN 94-MM-042	
WAVELET INVERSIONS OF ELASTIC WAVE AND XRAY NONDESTRUCTIVE EVALUATION OF DATA FROM HIGH-TECHNOLOGY MATERIALS Univ of Missouri	DeFacio Brian	M 36 22/11/93 \$223,401	SJOGREN 94-MM-043	
UNIVERSAL CYCLES AND PARTIALLY ORDERED SETS Arizona State University	Murlbert Glenn	M 36 22/11/93 \$110,013	D GLASSMAN 94-MM-044	
SINGULARITY FORMATION ON STRESSED SURFACES AS A PRECURSOR OF FRACTURE North Carolina State University	Yakobson D.	M 36 22/11/93 \$191,918	NACHMAN 94-MM-045	
DISTRIBUTED DETECTION THEORY AND DATA FUSION Syracuse University	Varshney Pramod	M 12 22/11/93 \$63,659	A SJOGREN 94-MM-047	\$63,659 01/03/94 \$63,659
ASERT94/PRIORITY QUEUE MANAGEMENT FOR ATM SWITCHES polytechnic University	Chao Hung-Hsiang	M 36 22/11/93 \$250,947	D GLASSMAN 94-MM-048	
WAVELETS, SIGNAL PROCESSING, & MATRIX COMPUTATION Air Force Institute of Technology	Sutor Bruce	M 12 24/11/93 \$121,111	A SJOGREN 94-MM-049	
THERMOPHYSICAL INVARIANTS FOR OBJECT RECOGNITION Univ of Virginia	Mundhakumar Nagaraj	M 12 29/11/93 \$35,045	WAKSMAN 94-MM-050	

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REAL TIME MEDICAL IMAGING National Academy of Sciences	Lavery	N 24 29/11/93 \$58,000	D NACHMAN 94-NR-052	
COMPLEX DYNAMICS Univ of Illinois - Urbana Champaign	Hinkkanen	N 36 29/11/93 \$86,718	D NACHMAN 94-NR-053	
ESTIMATION WITH MULTISENSOR-MULTISCAN DETECTION FUSION Univ of Connecticut	B.W.-Shaloe	R 12 29/11/93 \$57,745	A GLASSMAN 94-NR-054	\$57,745 01/03/94 \$57,745
PARALLEL DATA STRUCTURES & ALGORITHMS FOR NETWORK OPTIMIZATION Univ of Central Florida	Deo	N 36 29/11/93 \$543,539	GLASSMAN 94-NR-055	
ASSETS4/ADVANCED HARD REAL-TIME OPERATING SYSTEMS: THE MARUTI PROJECT Univ of Maryland	Agrawala	N 36 01/12/93 \$18,829	D WAKSMAN 94-NR-056	
CAASERT94) INFERENCE AND MODELING FOR REPAIRABLE SYSTEMS AND SOFTWARE RELIABILITY Univ of Missouri	Sasu	N 36 01/12/93 \$74,172	A SJOOREN 94-NR-057	\$73,736 01/06/94 \$74,172
ASSETS34/METHODS & TOOLS FOR ENGINEERING DISTRIBUTED OBJECT - ORIENTED SYSTEMS Syracuse University	Craig	N 36 01/12/93 \$218,433	D WAKSMAN 94-NR-058	
CAASERT94) SUPPLEMENT TO EXPLOITING CHAS IN OVERSAMPLED A/D CONVERTERS Univ of California, Berkeley	Zakhor	N 36 01/12/93 \$249,000	A SJOOREN 94-NR-059	\$150,000 01/06/94 \$150,000
CAASERT94) HIGH PERFORMANCE COMPUTING FOR THE PLANNING INITIATIVE Univ of Maryland	Hendler	N 36 01/12/93 \$100,000	A WAKSMAN 94-NR-060	\$99,698 01/09/94 \$100,000

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CAASERT94) GRADUATE STUDENT SUPPORT FOR ANALYTICAL MODELING OF HIGH RATE PROCESSES University of Alabama	Jones Stanley	N 36 02/12/93 \$164,713	A NACHMAN 94-NM-061	9164,713 01/09/94 9164,713
MULTICHANNEL DECONVOLUTION WITH APPLICATIONS TO SIGNAL & IMAGE PROCESSING American University	Casey Stephen	N 15 03/12/93 \$51,171	A SJOGREN 94-NM-062	926,784 01/06/94 951,171
DETERMINING INPUTS FOR MULTILAYER PERCEPTRONS Air Force Institute of Technology	Bauer, Jr. Kenneth	N 12 07/12/93 \$28,380	SUDDARTH 94-NM-063	
LEARNING MANEUVERS USING NEURAL NETWORK MODELS Georgia Institute of Tech	Atkeson Christopher	N 24 07/12/93 \$338,355	A SUDDARTH 94-NM-064	9161,742 01/07/94 9162,654
OPERATOR STABLE LAWS, GENERALIZED DOMAINS OF ATTRACTION AND APPLICATION Univ of Nevada	Mearschaert Mark	N 36 08/12/93 \$74,238	D NACHMAN 94-NM-065	
COMPUTATIONAL & ALGEBRAIC ASPECTS OF PARTIAL DIFFERENTIAL EQUATIONS Univ of Illinois	Rubel Lee	N 36 08/12/93 \$74,375	JACOBS 94-NM-066	
FATIGUE DAMAGE: STOCHASTIC MODELLING AND DATA ANALYSIS Texas Tech University	Chanda Kamal	N 36 08/12/93 \$137,013	SJOGREN 94-NM-068	
DESIGN OF NONLINEAR CONTROLLERS FOR CONSTRAINED DYNAMIC SYSTEMS Univ of California, Davis	Wayne David	N 36 08/12/93 \$125,110	D JACOBS 94-NM-069	
WARM STARTING INTERIOR POINT METHODS, WITH APPLICATIONS TO SOLVING INTEGER PROGRAMMING PROBLEMS Rensselaer Polytechnic Institute	Mitchell John	N 36 08/12/93 \$220,892	D GLASSMAN 94-NM-070	

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MODELLING/FORECASTING STATISTICAL SOFTWARE RELIABILITY & COSTS WITH DATA INCORPORATING FAILURE TIMES & COVARIATES Univ of Maryland	SLUD	N 36 08/12/93 \$185,200	SJOGREN 94-MM-072	
ANALYSIS OF MODELS FOR MICROSTRUCTURE Carnegie-Mellon University	Brandon	N 36 08/12/93 \$77,364	D NACHMAN 94-MM-073	
DAVIDSON'S COLLINER SCALING ALGORITHMS THAT EXTEND QUASI-NEWTON METHODS FOR OPTIMIZATION Washington State University	Ariyama	N 12 17/12/93 \$93,532	GLASSMAN 94-MM-074	
SCALABLE DATA PARALLEL ALGORITHMS & IMPLEMENTATION FOR VISION Univ of Southern California	Navatia	N 36 20/12/93 \$399,990	A WAKSMAN 94-MM-076	850,035 01/08/94 0399,990
NONLINEAR CHAOTIC SYSTEMS ENGINEERING Utah State University	Gunderson	N 24 20/12/93 \$166,089	D JACOBS 94-MM-077	
MATHEMATICAL MODELING IN PLASMA PHYSICS Clark University	Sternberg	N 36 20/12/93 \$106,341	NACHMAN 94-MM-078	
FUZZY LOGIC BASED INTELLIGENT ANESTHESIA MONITOR MANAGEMENT SYSTEM WITH MULTIPLE FEEDBACKS & INTEGRATED PATIENT MONITORING Saint Mary's University	Maghsoodi	N 36 21/12/93 \$772,724	SJOGREN 94-MM-079	
PROPERTIES OF GRAPHS AND THEIR APPLICATIONS Georgia State University	Zhou	N 36 21/12/93 \$104,083	D GLASSMAN 94-MM-080	
OPTIMAL FEEDBACK CONTROL OF NONLINEAR PARTIAL DIFFERENTIAL Univ of South Florida	You	N 36 22/12/93 \$112,547	D JACOBS 94-MM-081	

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PROPAGATING PHASE BOUNDARIES IN SOLIDS: MATHEMATICAL ANALYSIS AND
NUMERICAL APPROXIMATION
California Institute of Technology

INVESTIGATOR

Hou

Thomas

TYPE/MONTHS
RECEIVED
AMOUNT

N 36
22/12/93
\$129,724

STATUS
PROGRAM MANAGER
PROPOSAL #

A
NACHMAN
94-NR-083

INITIATE
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942.123
01/05/94
\$129,724